



AFGHAN NATIONAL ARMY

STANDARD BUILDING DESIGN

FUEL OPERATORS BUILDING

100% FINAL DESIGN SUBMITTAL

SHEET INDEX

G-001 COVER SHEET

STRUCTURAL

S-001	GENERAL NOTES & DESIGN CRITERIA
S-101	FOUNDATION/SLAB & ROOF FRAMING PLANS
S-401	BUILDING SECTIONS
S-501	SECTIONS
S-601	SCHEDULES
S-701	TYPICAL DETAILS
S-801	PLANS & DETAILS & SHEAR WALL ELEVATIONS

ARCHITECTURAL

A-001 LIFE SAFETY PLAN
A-101 FLOOR PLAN, ROOF PLAN &
ELEVATIONS
A-401 WALL SECTIONS
A-501 EXTERIOR DETAILS
A-502 HEAD, JAMB, & SILL DETAILS
A-503 WINDOW DETAILS
A-601 STOOD & DOOR SCHEDULES

MECHANICAL

M-101 FLOOR PLAN-HVAC SCHEDULES & DETAILS

ELECTRICAL

E-001	ELECTRICAL	SYMBOLS & ABBREVIATIONS
E-101	ELECTRICAL	LIGHTING, POWER & SYSTEMS PLAN
E-501	ELECTRICAL	DETAILS
E-502	ELECTRICAL	DETAILS
E-601	ELECTRICAL	LIGHT FIXTURE SCHEDULE
E-602	ELECTRICAL	PANEL SCHEDULES

AFGHAN NATIONAL ARMY
REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

FUEL OPERATORS BUILDING

COVER SHEET

Sheet
reference
number:

G-001

U.S. ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT	Designed by: KMP/MMY	Date: 3/07/2010	Rev: 0
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	APD AE 96338	Drawing code: LHM	
<i>Michael Baker, Jr., Inc.</i> <i>Michael Baker Corporation</i>	Submitted by:	File name: ANACRSG-001	
Atsede Business Park Atsede Road Moon Township, PA 15108		Print date: 3/9/2010	

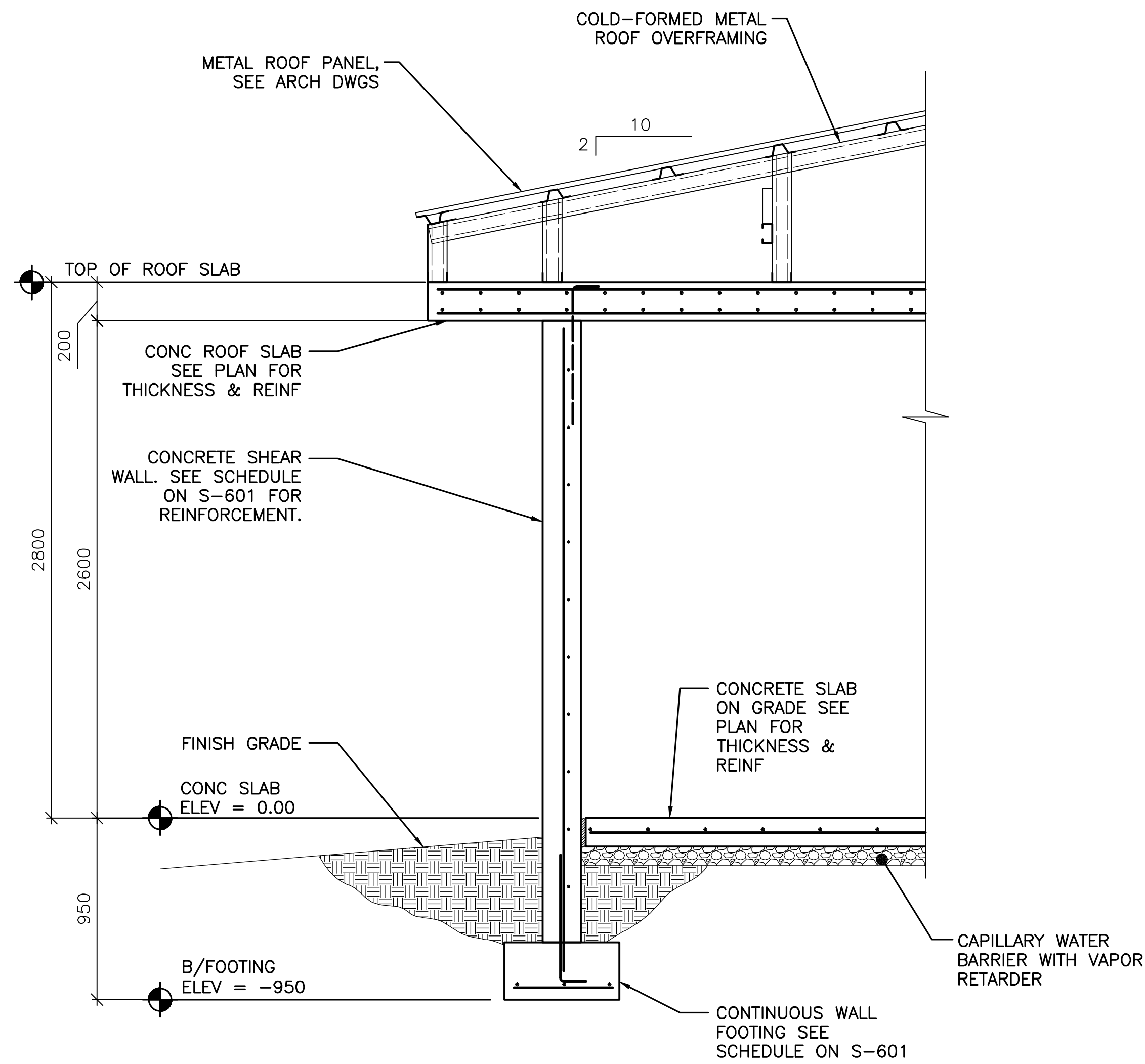
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U.S. ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT APO AE 96338	KMP/AMV 2/23/10	Design file no.	Drawing code	File name: ANAC085-401B5
Michael Baker Corp., Inc A unit of Michael Baker Corporation Arlisle Business Park Norton, Pennsylvania 15108 www.mbakercorp.com	CG RCG	CG by CWW	Reviewed by LHM	Plot scale: 2:220010
			Submitted by BAKER	

AFGHAN NATIONAL ARMY REGIONAL MILITARY TRAINING CENTER STANDARD DESIGN	FUEL OPERATORS BUILDING	BUILDING SECTIONS
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reference
number:
S-401



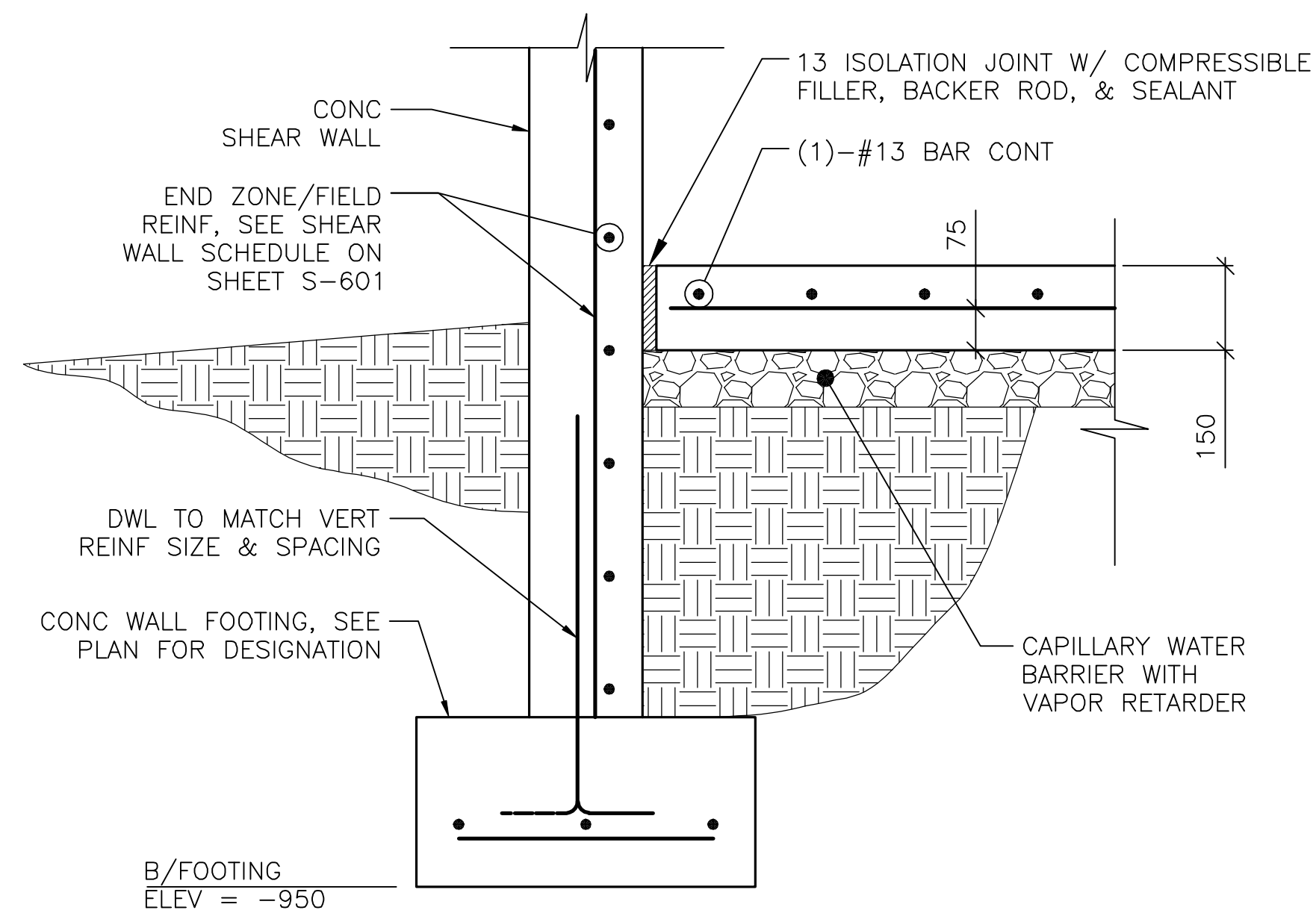
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DIMENSIONS SHOWN ON DRAWINGS
ARE IN MILLIMETERS (mm)

APPROVED:

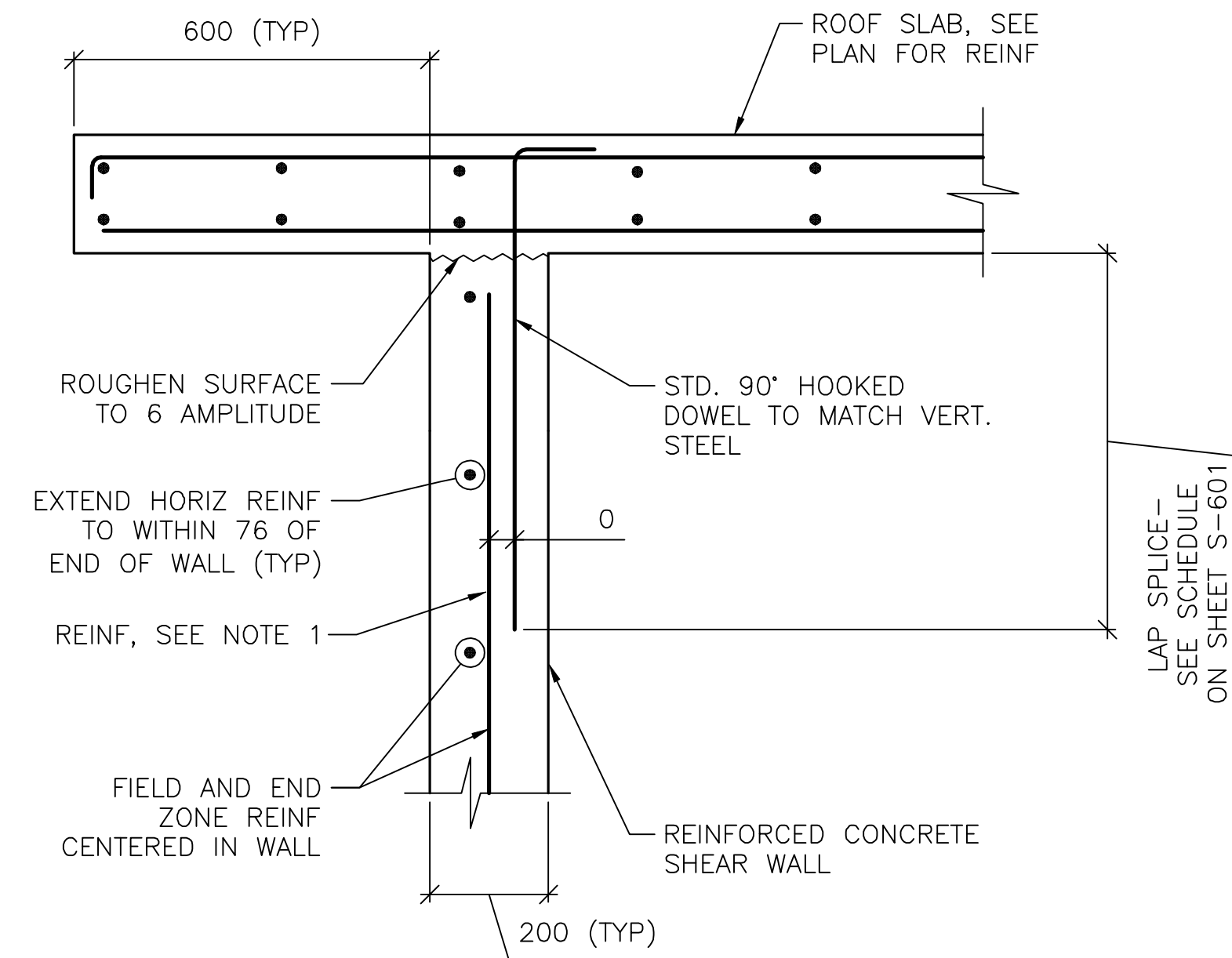
Chris White
A/E DESIGNER OF RECORD

SEAL:





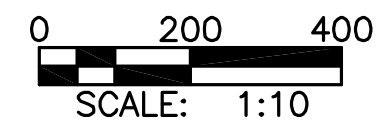
1
S-101



NOTES:

- NOTES:
1. TERMINATE "FIELD" VERT REINF & END ZONE REINF @ 50 CLEAR FROM TOP OF ROOF SLAB.
 2. SEE SHEET S-601 FOR SCHEDULED FIELD AND END ZONE REINF.

2
S-101



UNLESS OTHERWISE NOTED, LINEAR
DIMENSIONS SHOWN ON DRAWINGS
ARE IN MILLIMETERS (mm)

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Chris White

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	Plot scale: x/x	
BAKER		

AFGHAN NATIONAL ARMY
REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

FUEL OPERATORS BUILDING

SECTIONS

Sheet
reference
number:
S-501

CONCRETE REINFORCEMENT TENSION DEVELOPMENT/LAP SPLICE SCHEDULE

f'c = 28 MPa	LAP CLASS	UNCOATED BARS			
		TOP BARS		OTHER BARS	
BAR SIZES		CASE 1	CASE 2	CASE 1	CASE 2
#10 TO #19	A	50 BAR DIA	74 BAR DIA	38 BAR DIA	57 BAR DIA
	B	64 BAR DIA	96 BAR DIA	50 BAR DIA	74 BAR DIA
#22 TO #57	A	62 BAR DIA	93 BAR DIA	48 BAR DIA	71 BAR DIA
	B	80 BAR DIA	121 BAR DIA	62 BAR DIA	93 BAR DIA

NOTES:

1. TABULATED TENSION DEVELOPMENT LENGTH VALUES ARE TAKEN FROM CRSI DESIGN HANDBOOK 2008 10TH ED.
2. TENSION DEVELOPMENT & TENSION LAP SPICE LENGTHS ARE EXPRESSED AS MULTIPLES OF BAR DIAMETERS.
3. TABULATED VALUES ARE BASED ON MINIMUM YIELD STRENGTH OF REINFORCEMENT, f_y , OF 420MPa.
4. CONCRETE IS NORMAL WEIGHT (2400kg/m^3) AND 28 DAY COMPRESSIVE STRENGTH = 28MPa.
5. TABULATED VALUES FOR BEAMS & COLUMNS ARE BASED ON TRANSVERSE REINFORCEMENT AND CONCRETE COVER MEETING MINIMUM CODE REQUIREMENTS.
6. CASES 1 & 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL MEMBER, CONCRETE COVER, AND CENTER-TO-CENTER SPACING OF THE BARS ARE DEFINED IN THE TABLE BELOW.
7. LAP SPICE LENGTHS (MINIMUM 300mm) ARE MULTIPLES OF TENSION DEVELOPMENT LENGTHS: CLASS A = $1.0(\text{TENSION DEVELOPMENT LENGTH})$ & CLASS B = $1.3(\text{TENSION DEVELOPMENT LENGTH})$
8. TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 300mm OF CONCRETE CAST BELOW THE BARS.
9. IT SHALL BE PERMISSIBLE TO CALCULATE WALL AND SLAB REINFORCEMENT TENSION DEVELOPMENT/SPICE LENGTHS IN ACCORDANCE WITH ACI 12.2.3 OR TABLE 5.3(b) OF CRSI 2008 IN LIEU OF VALUES TABULATED ABOVE.

BEAMS, COLUMNS	CASE 1	CONCRETE COVER AT LEAST 1 BAR DIA AND CENTER-TO-CENTER SPACING AT LEAST 2 BAR DIA
	CASE 2	CONCRETE COVER LESS THAN 1 BAR DIA OR CENTER-TO-CENTER SPACING LESS THAN 2 BAR DIA
ALL OTHERS	CASE 1	CONCRETE COVER AT LEAST 1 BAR DIA AND CENTER-TO-CENTER SPACING AT LEAST 3 BAR DIA
	CASE 2	CONCRETE COVER LESS THAN 1 BAR DIA OR CENTER-TO-CENTER SPACING LESS THAN 3 BAR DIA

CONCRETE COVER SCHEDULE

MINIMUM CONCRETE COVER PROTECTION FOR REINFORCEMENT BARS SHALL BE AS LISTED BELOW: (SEE ACI 318M-05, SECTION 7.7 FOR CONDITIONS NOT NOTED). DIMENSIONS FOR BAR PLACEMENT GIVEN IN SECTIONS AND DETAILS SHALL SUPERSEDE MINIMUM COVER REQUIREMENTS GIVEN HERE. DIMENSIONS ARE IN mm. PROVIDE STANDARD BAR CHAIRS AND SUPPORT BARS @1200mm MAXIMUM AS REQUIRED TO MAINTAIN CONCRETE PROTECTION SPECIFIED.

FOOTINGS (EARTH FORMED):	70
COLUMNS / PIERS (TO TIES)	40
GRADE BEAMS OR SLAB TURNED DOWN EDGES:	
TOP	40
BOTTOM (EARTH FORMED)	70
SIDES (EARTH FORMED)	70
SIDES (BOARD FORMED)	40
#16 BAR & SMALLER	
#19 THRU #36 BAR	50
ELEVATED BEAMS & SLABS:	
BEAM TIES & STIRRUPS (NOT EXPOSED TO WEATHER)	40
BEAM TIES & STIRRUPS (EXPOSED TO WEATHER)	50
FLOOR SLABS (NOT EXPOSED TO WEATHER)	20
FLOOR SLABS (EXPOSED TO WEATHER)	
#19 & LARGER	50
#13 & SMALLER	40
ROOF SLAB BARS	25
SLABS ON GRADE	
NOT EXPOSED TO WEATHER (FROM TOP)	20
EXPOSED TO WEATHER (FROM TOP)	40
UTILITY TUNNEL WALLS, RETAINING WALLS AND SHEAR WALLS.	
(NO SURFACES SHALL BE EARTH FORMED)	
EARTH SIDE AND FRONT SIDE (EXPOSED TO WEATHER)	
#16 BAR AND SMALLER	40
#19 THRU #36 BAR	50

CONCRETE SHEAR WALL SCHEDULE

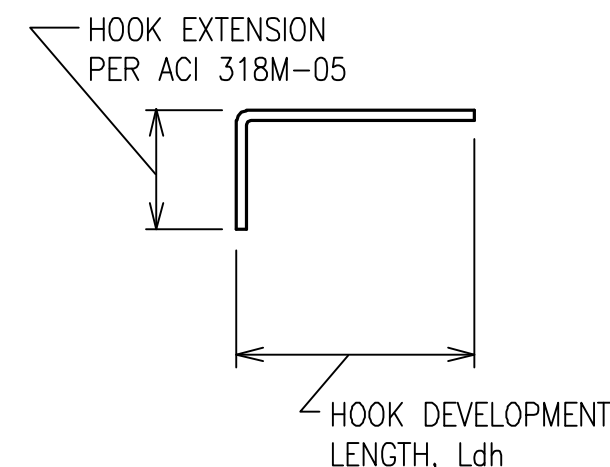
MARK	TYPE	WALL LENGTH (L) (mm)	WALL REINFORCEMENT		REMARKS
			END ZONE (EACH END)	FIELD	
SW1	E	1100	(2)-#13 @ 100mm OC	#13 @ 300mm OC	(2) SHEAR WALL SECTIONS OF 1100mm IN LENGTH PER (1) TYPE E SHEAR WALL DETAIL

NOTES:

1. WORK THIS SCHEDULE WITH SHEAR WALL DETAILS ON SHEETS S-701
2. SEE PLAN FOR LOCATION OF SHEAR WALL(S).
3. WALL "FIELD" REINFORCEMENT LISTED APPLIES TO VERTICAL & HORIZONTAL BARS.
4. WALL "FIELD" REINFORCEMENT SHOULD BE CENTERED IN WALL.
5. VERTICAL "FIELD" BARS MAY BE OMITTED IN LOCATION OF "END ZONE" REINFORCEMENT.

STANDARD
HOOKS IN
TENSION PER
(ACI 318M-05)

HOOK DEVELOPMENT LENGTH (mm)	
BAR SIZE	f'_c 28 MPa
#10	180
#13	250
#16	300
#19	380
#22	430
#25	480
#29	560
#32	610
#36	690



NOTES:

1. CONCRETE IS NORMAL WEIGHT CONCRETE.
2. BAR YIELD STRENGTH, $f_y = 420$ MPa
3. SIDE COVER REQUIREMENTS OF ACI SECT. 12.5.3 ARE ASSUMED TO NOT BE MET.
4. TIE OR STIRRUP REQUIREMENTS OF ACI SECT. 12.5.3 ARE ASSUMED TO NOT BE MET.
5. REDUCTION FOR EXCESS REINFORCEMENT IS NOT TAKEN.
6. HOOK DEVELOPMENT LENGTH IS VALID FOR 180° HOOKS ALSO.

WALL FOOTING SCHEDULE

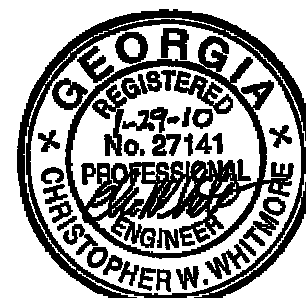
MARK	FOOTING SIZE (mm)			FOOTING REINFORCING		REMARKS
	LENGTH	WIDTH	THICKNESS	LONGITUDINAL	TRANSVERSE	
WF1	---	600	300	(4)-#19	#13 @ 450mm	-----

UNLESS OTHERWISE NOTED,
LINEAR DIMENSIONS SHOWN ARE
IN MILLIMETERS (mm)

APPROVED:

A/E DESIGNER OF RECORD

SEAL: .

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		Plot date:	2/22/2010		
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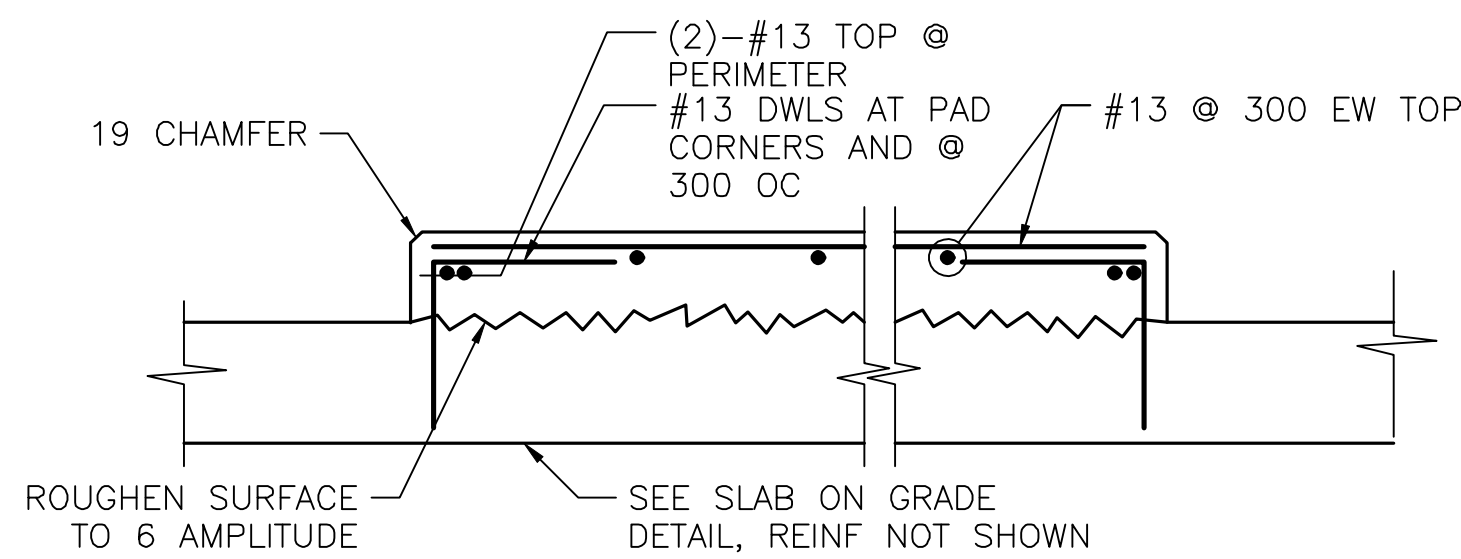
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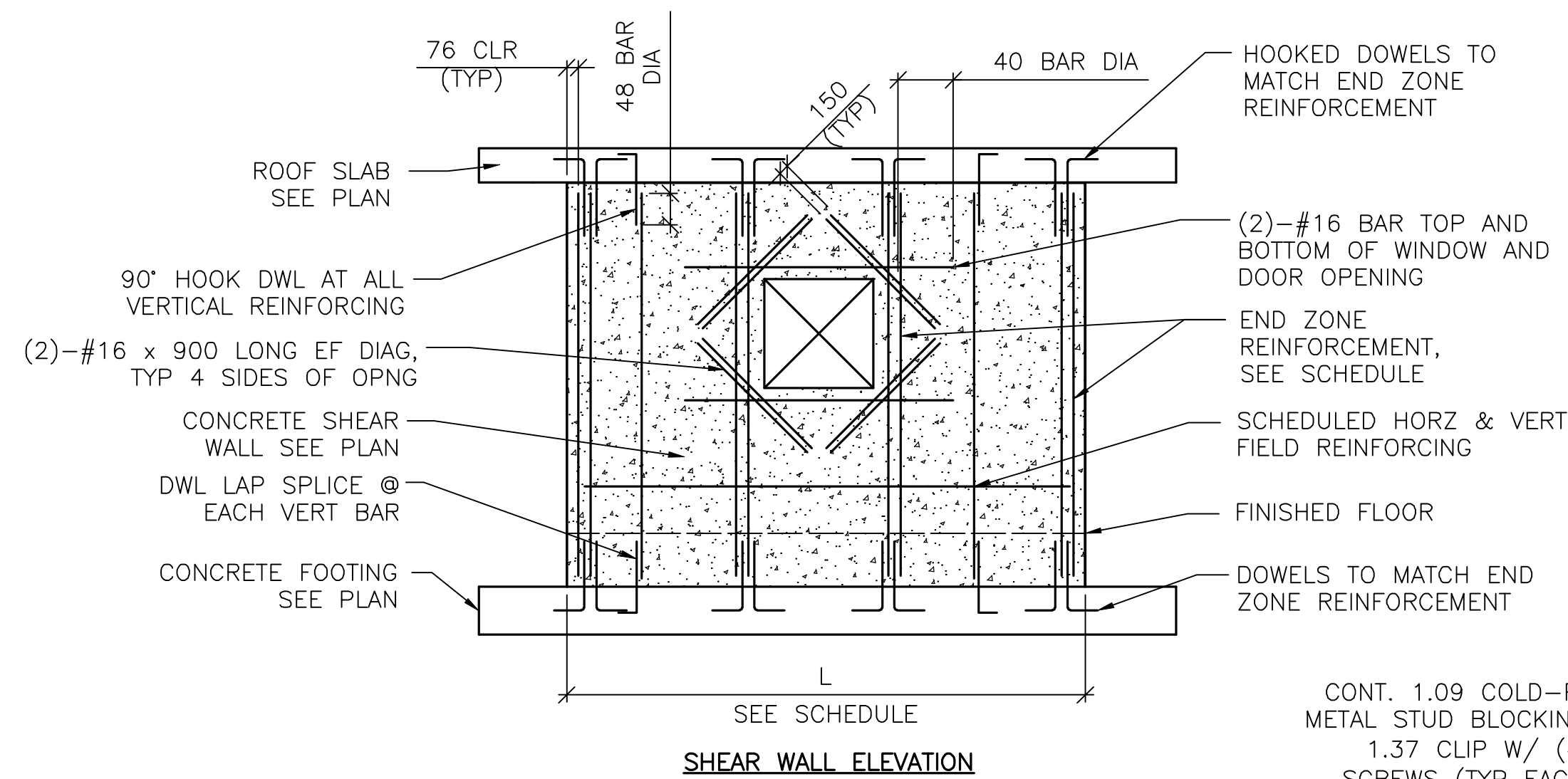
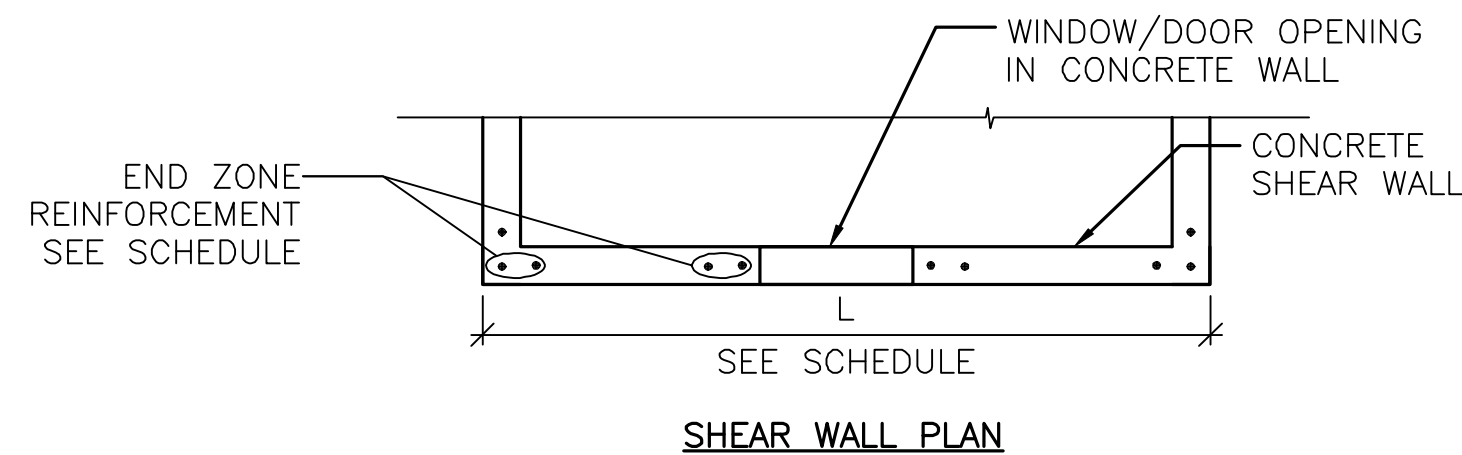
AFGHAN NATIONAL ARMY REGIONAL MILITARY TRAINING CENTER STANDARD DESIGN	FUEL OPERATORS BUILDING	SCHEDULES
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Sheet
reference
number:

S-601

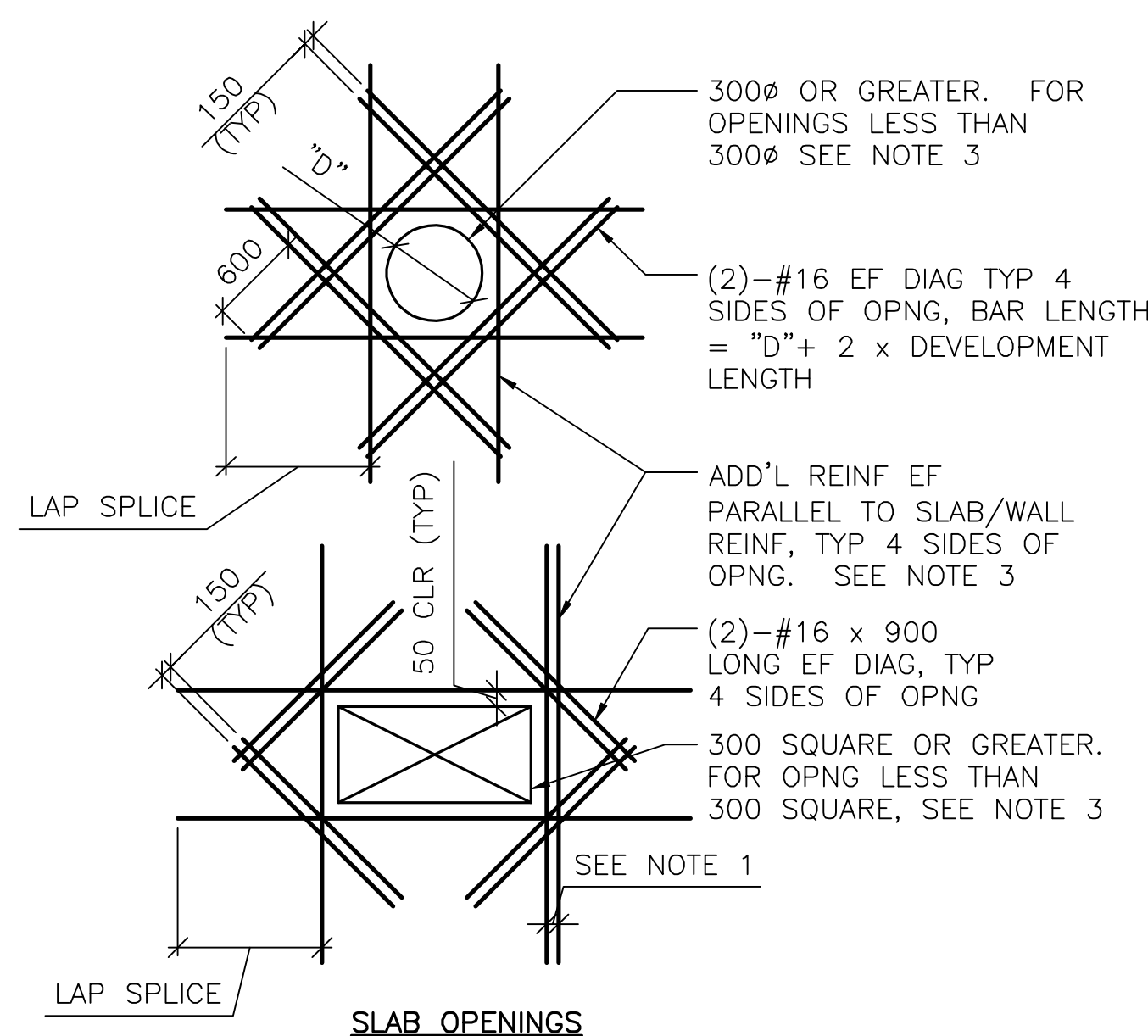


1
INTERIOR EQUIPMENT PAD DETAIL
SCALE: NTS



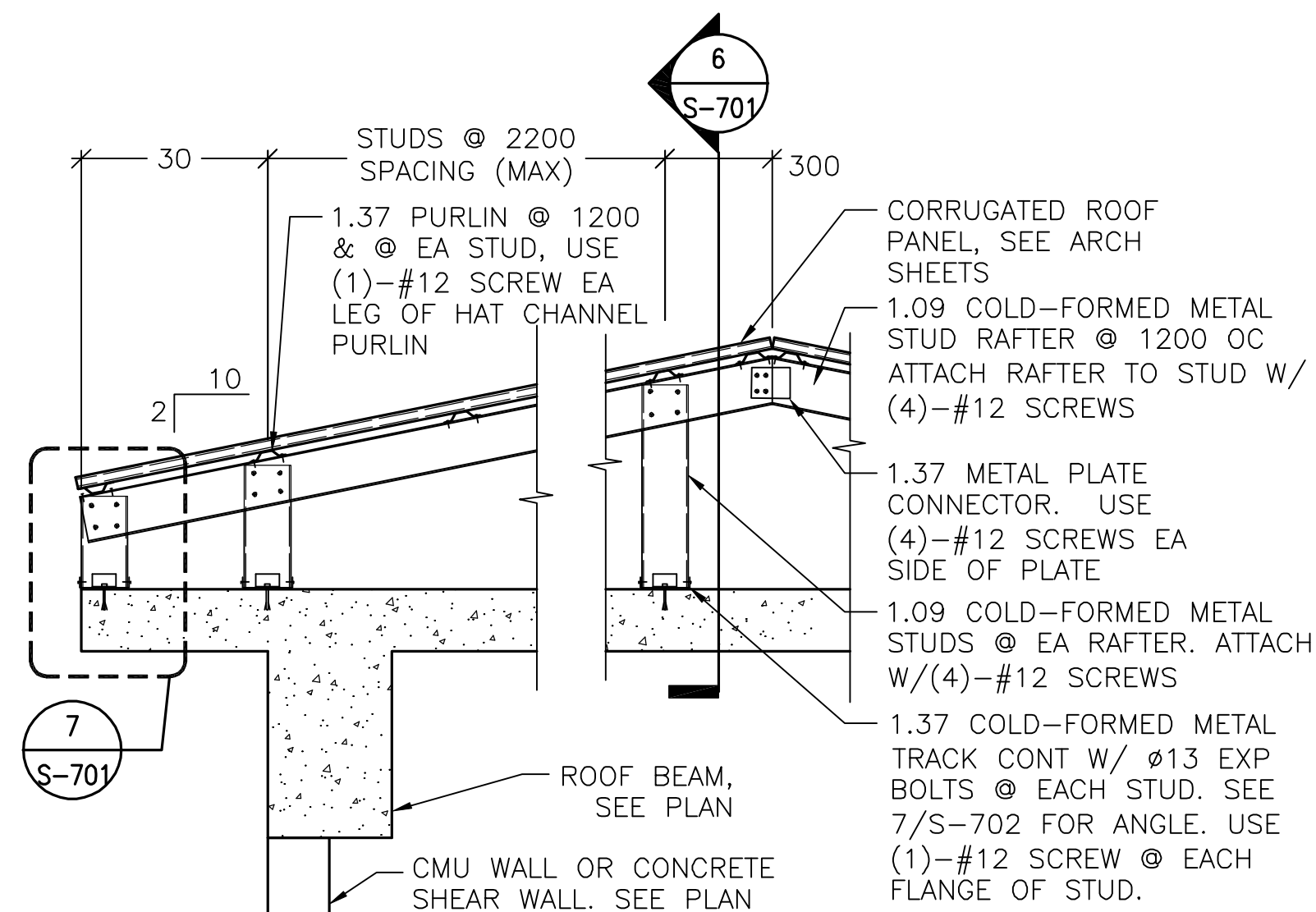
2
TYPE "E" SHEAR WALL DETAIL
SCALE: NTS

- DETAIL NOTES:
1. FIELD REINFORCEMENT IN SHEAR WALL NOT COMPLETELY SHOWN FOR CLARITY.
 2. MINIMUM CONC CLEAR DISTANCE FOR END ZONE REINF = 76
 3. SEE CONC SHEAR WALL SCHEDULE ON SHEET S-601
 4. CENTER FIELD REINF IN WALL
 5. WINDOW OPENING SHOWN. DOOR OPENING REINFORCEMENT SIMILAR



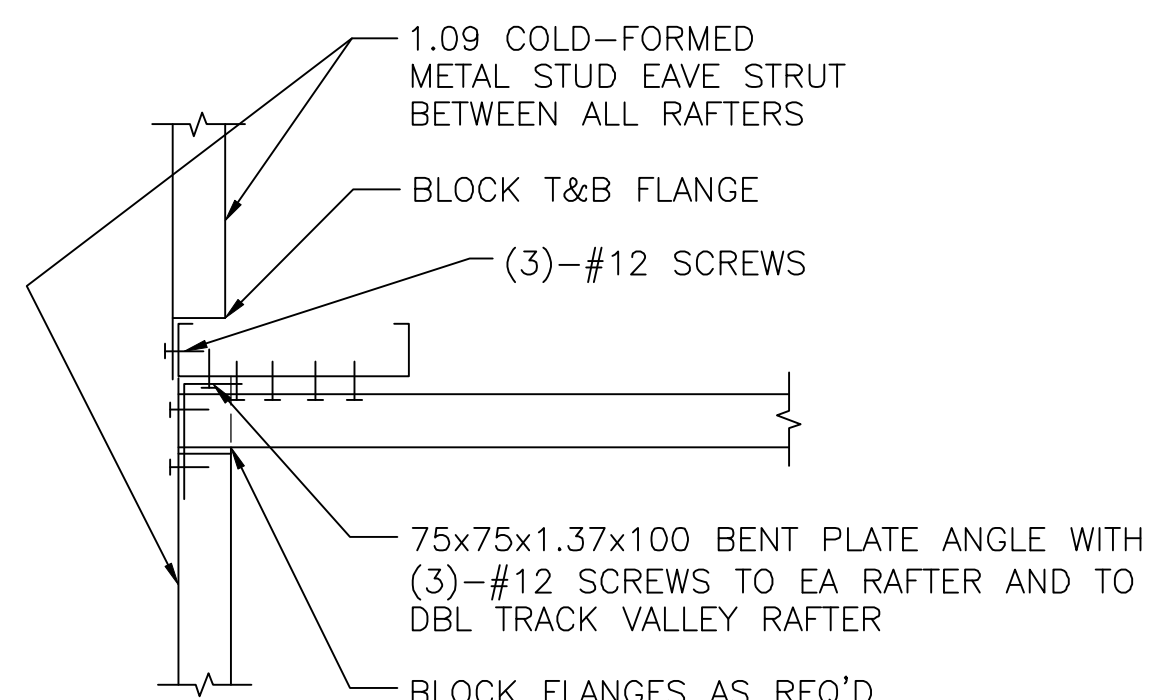
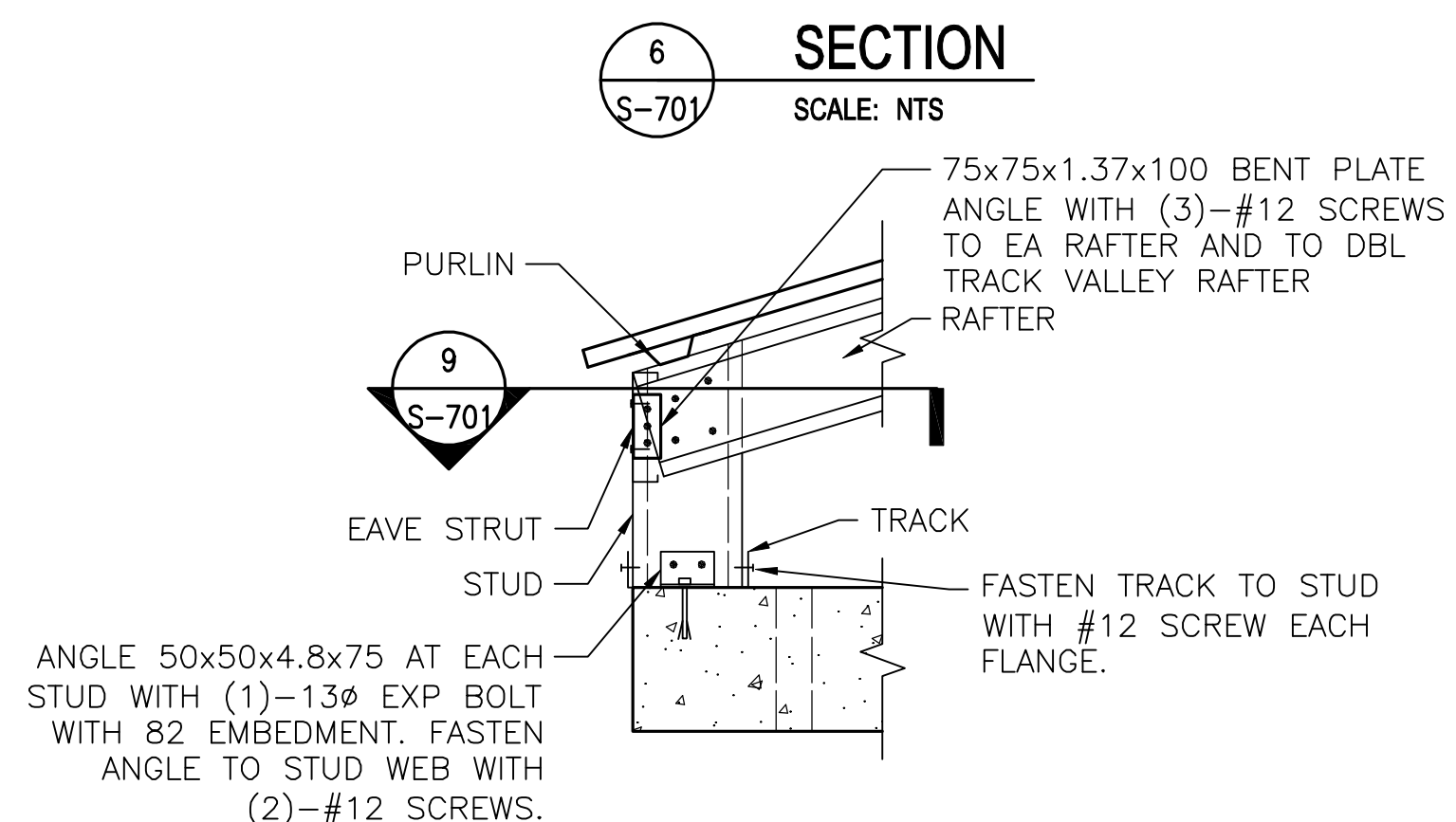
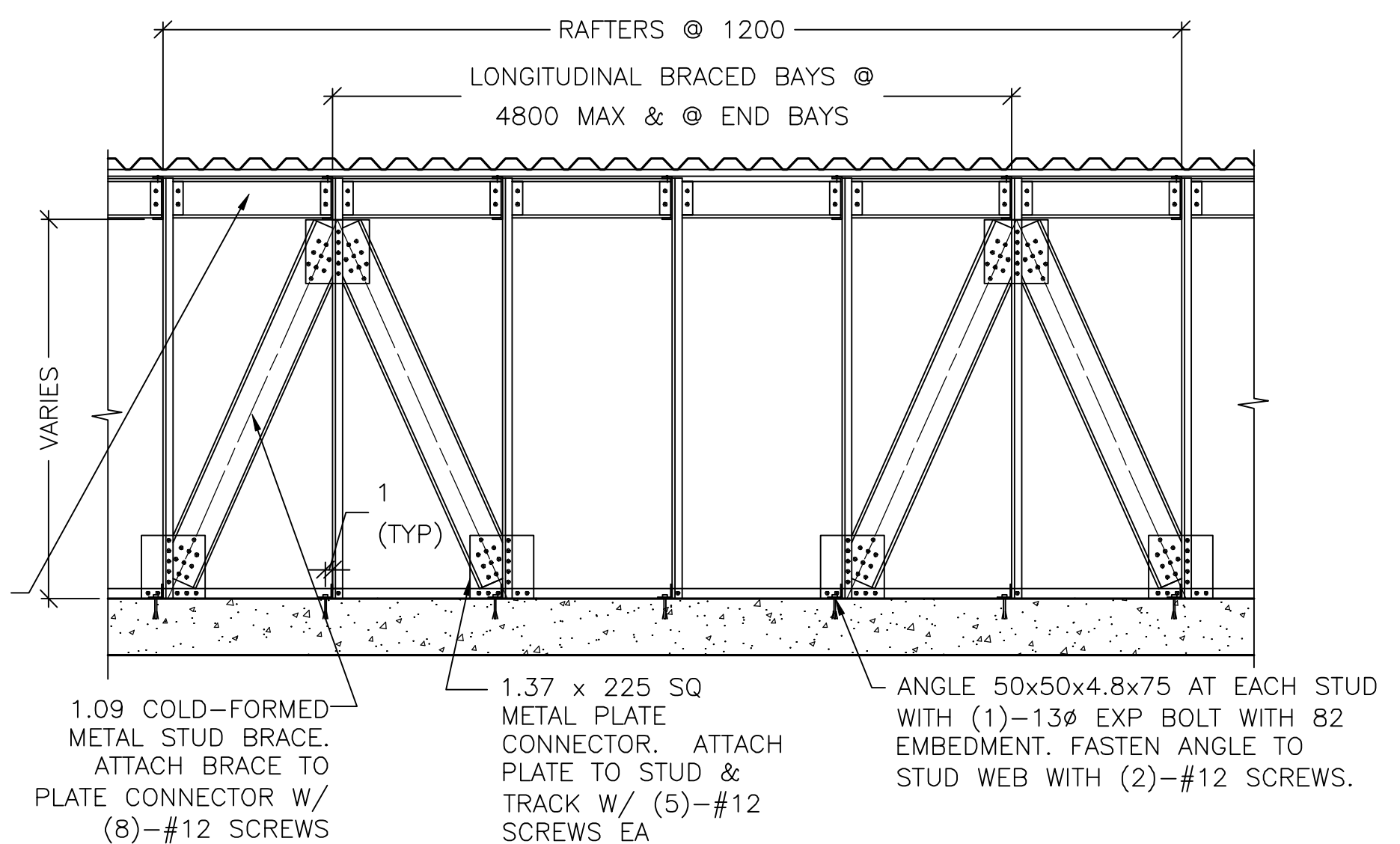
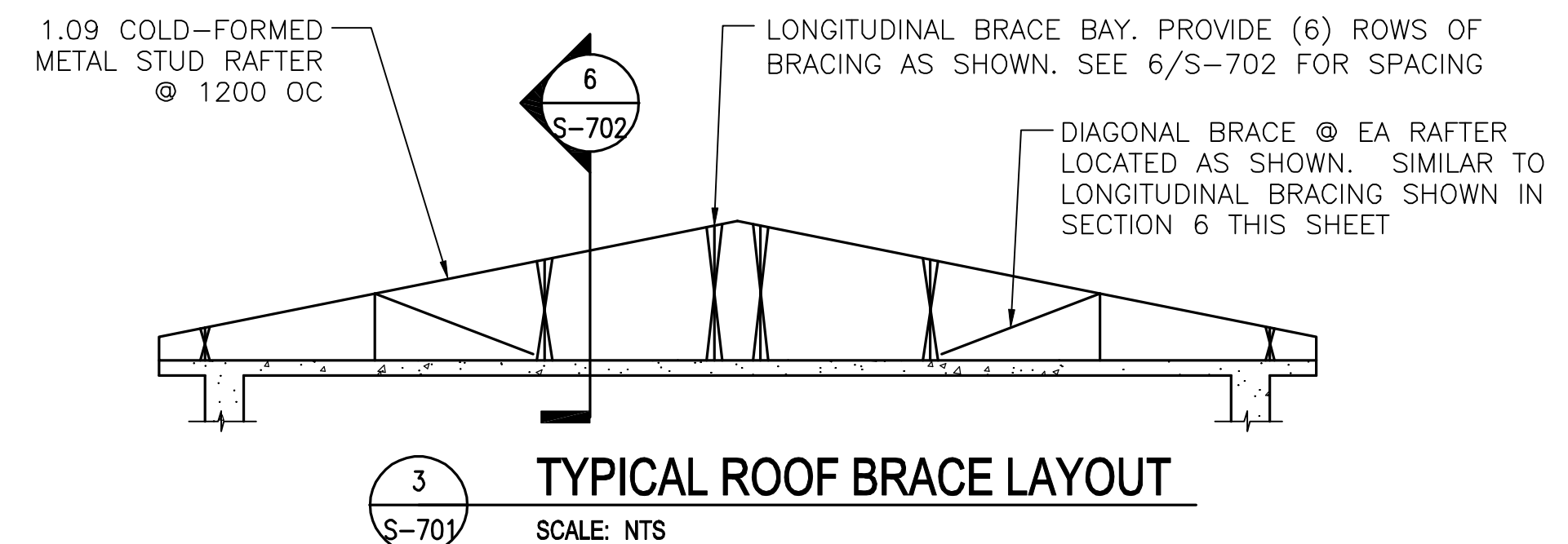
- DETAIL NOTES:
1. WHERE MORE THAN ONE ADDITIONAL BAR IS REQUIRED PARALLEL TO THE EXISTING SLAB/WALL REINFORCING THE ADDITIONAL REINFORCING BARS SHALL BE SPACED AT 100 ON CENTER.
 2. ADDITIONAL REINFORCING PARALLEL TO THE SLAB/WALL REINFORCING SHALL BE #16 BARS THAT PROVIDE A STEEL AREA ON EACH SIDE OF THE OPENING EQUAL TO 1/2 THE AREA OF THE REINFORCING CUT BY THE OPENING.
 3. FOR OPENINGS WITH SIDES OR DIAMETERS LESS THAN 300 SPREAD THE SLAB/WALL REINFORCING TO CLEAR THE OPENING.

4
ADD'L CONCRETE REINFORCEMENT DETAILS
SCALE: NTS



- DETAIL NOTES:
1. ALL GABLE END VERTICAL STUDS SHALL BE ORIENTED 90° TO INTERIOR STUDS & SPACED @ 600 OC. GABLE END RAFTER SHALL BE 1.37 METAL TRACK SPANNING CONTINUOUSLY OVER GABLE END STUDS. INSET GIRTS AT GABLE END SHALL BE 1.09 COLD-FORMED METAL STUDS @ 1200 OC ATTACHED VIA 1.37 THICKNESS CLIP ANGLE W/ (2) #12 SCREWS EA LEG.
 2. ALL INTERIOR, NON-GABLE END VERTICAL STUDS GREATER THAN 2400 IN LENGTH SHALL BE BACK-TO-BACK W/ #12 SCREWS @ 200 OC STAGGERED.

5
TYPICAL OVERBUILT ROOF FRAMING DETAIL
SCALE: NTS



8
SECTION
SCALE: NTS

UNLESS OTHERWISE NOTED, LINEAR DIMENSIONS SHOWN ON DRAWINGS ARE IN MILLIMETERS (mm)

APPROVED:

Chin Wada
A/E DESIGNER OF RECORD

SEAL:



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ENGINEER DISTRICT

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4	2/23/10			Design file no.
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6	2/23/10			Design file no.
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9	2/23/10			Design file no.
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AFGHAN NATIONAL ARMY REGIONAL MILITARY TRAINING CENTER STANDARD DESIGN	FUEL OPERATORS BUILDING

TYPICAL DETAILS

Sheet reference number:
S-701

1

2

3

4

5



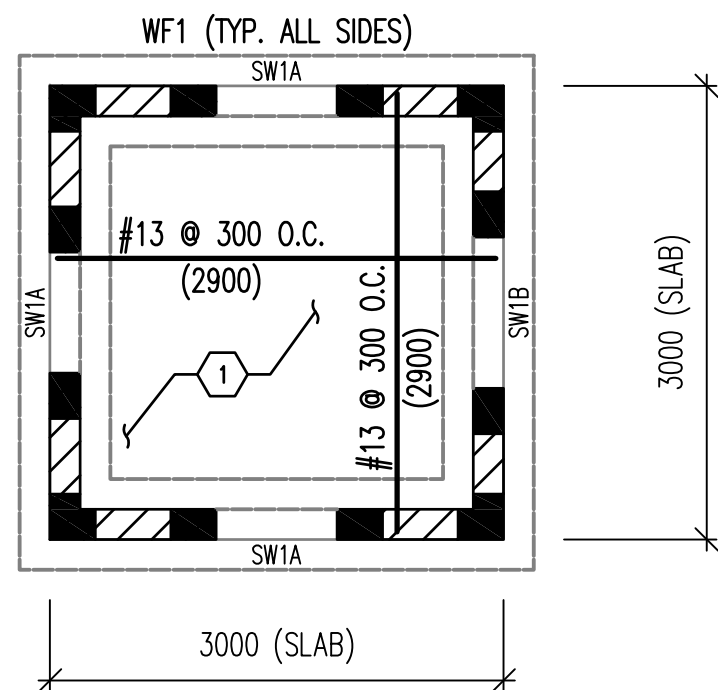
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0	30/7/2010	KMP/MMY		JLM	SCL	RTD	BAKER	ANAFOS-801	3/5/2010	1:50

U.S. ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT	Michael Baker Jr., Inc A unit of Michael Baker Corporation Arside Business Park 10000 Ardmore Blvd Nor Township, PA 15108 www.mbakercorp.com
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AFGHAN NATIONAL ARMY REGIONAL MILITARY TRAINING CENTER STANDARD DESIGN	FUEL OPERATORS BUILDING REBAR PLACEMENT DRAWINGS PLANS & DETAILS & SHEAR WALL REBAR ELEVATIONS
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Sheet reference number: S-801
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1
S-801
FOUNDATION/SLAB PLAN
SCALE: 1:50

FOUNDATION/SLAB PLAN NOTES:

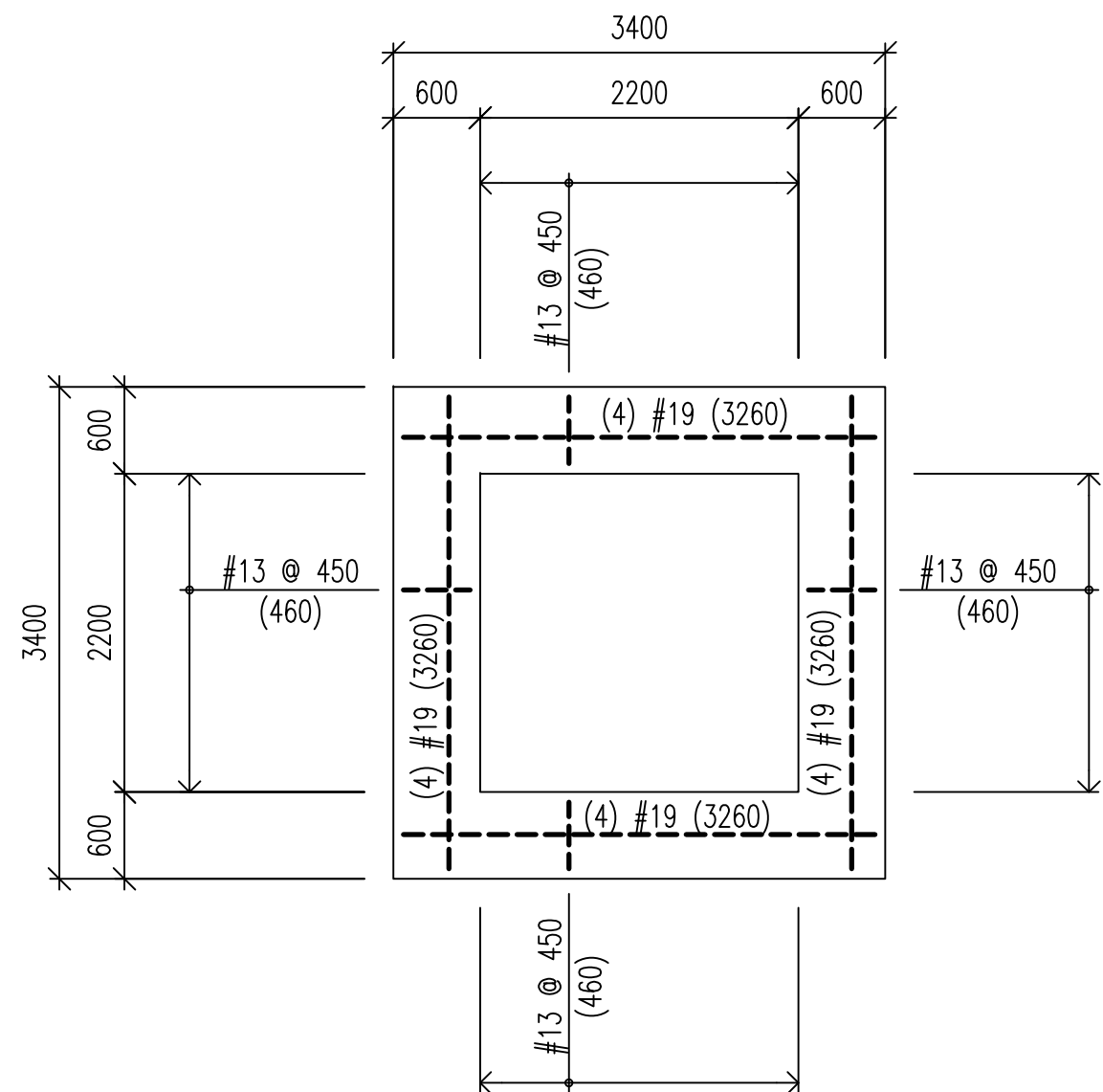
- SLAB-ON-GRADE REINFORCING ARE LOCATED 40mm FROM T/SLAB & B/SLAB, 50mm FROM EDGES & AND CONTROL JOINT. LENGTH NOTED AS THUS (6600). REFER TO DETAIL 4/S-801.
- WALL FOOTINGS INDICATED BY WF1 ON PLAN, REFER TO DETAIL 2/S-801.

FOUNDATION/SLAB PLAN KEY NOTES: (X)

- REINF. CONC. SLAB-ON-GRADE.

FOUNDATION/SLAB PLAN LEGEND:

- REINF CONC SHEAR WALL REFER TO DETAIL 1/S-801 & 2/S-801
- SLAB REINFORCING TOP BARS



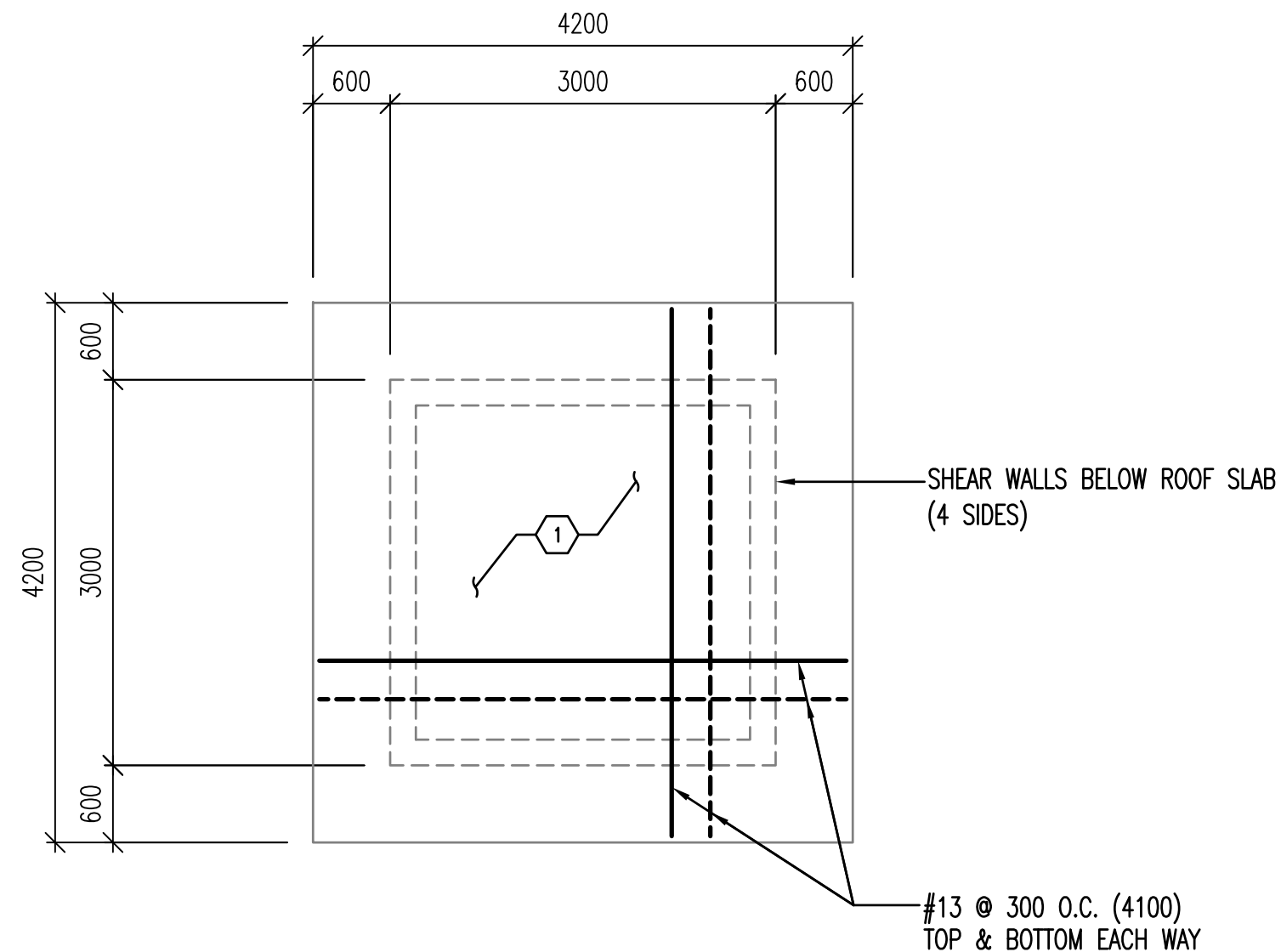
2
S-801
WALL FOOTING "WF1"
SCALE: 1:50

WALL FOOTING PLAN NOTES:

- FOOTING REINFORCING ARE LOCATED 70mm FROM BOTTOM OF FOOTING & 70mm FROM ALL EDGES

WALL FOOTING PLAN LEGEND:

- SLAB REINFORCING BOTTOM BARS



3
S-801
ROOF FRAMING PLAN
SCALE: 1:50

ROOF FRAMING PLAN NOTES:

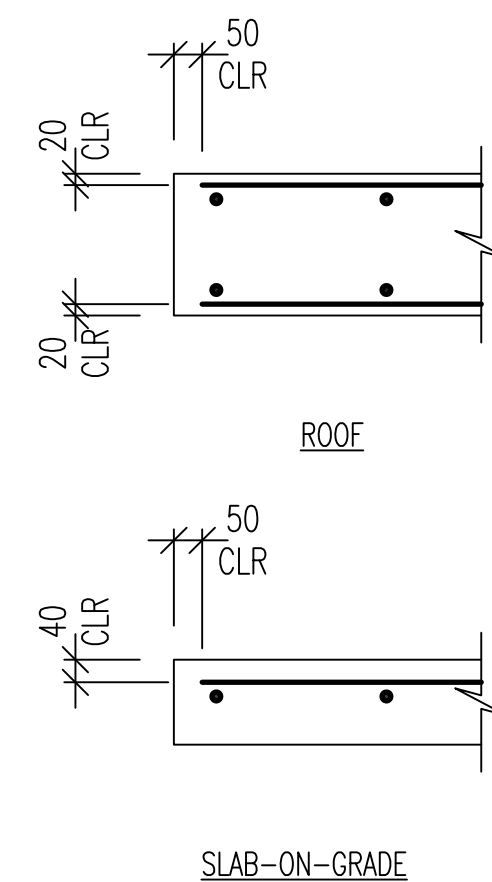
- ROOF SLAB REINFORCING BAR LENGTH IS NOTED THUS (6600).
- SLAB REBAR COVER AT T&B IS 20mm, 50mm AT EDGES. REFER TO DETAIL 4/S-801.

ROOF FRAMING PLAN KEY NOTES: (X)

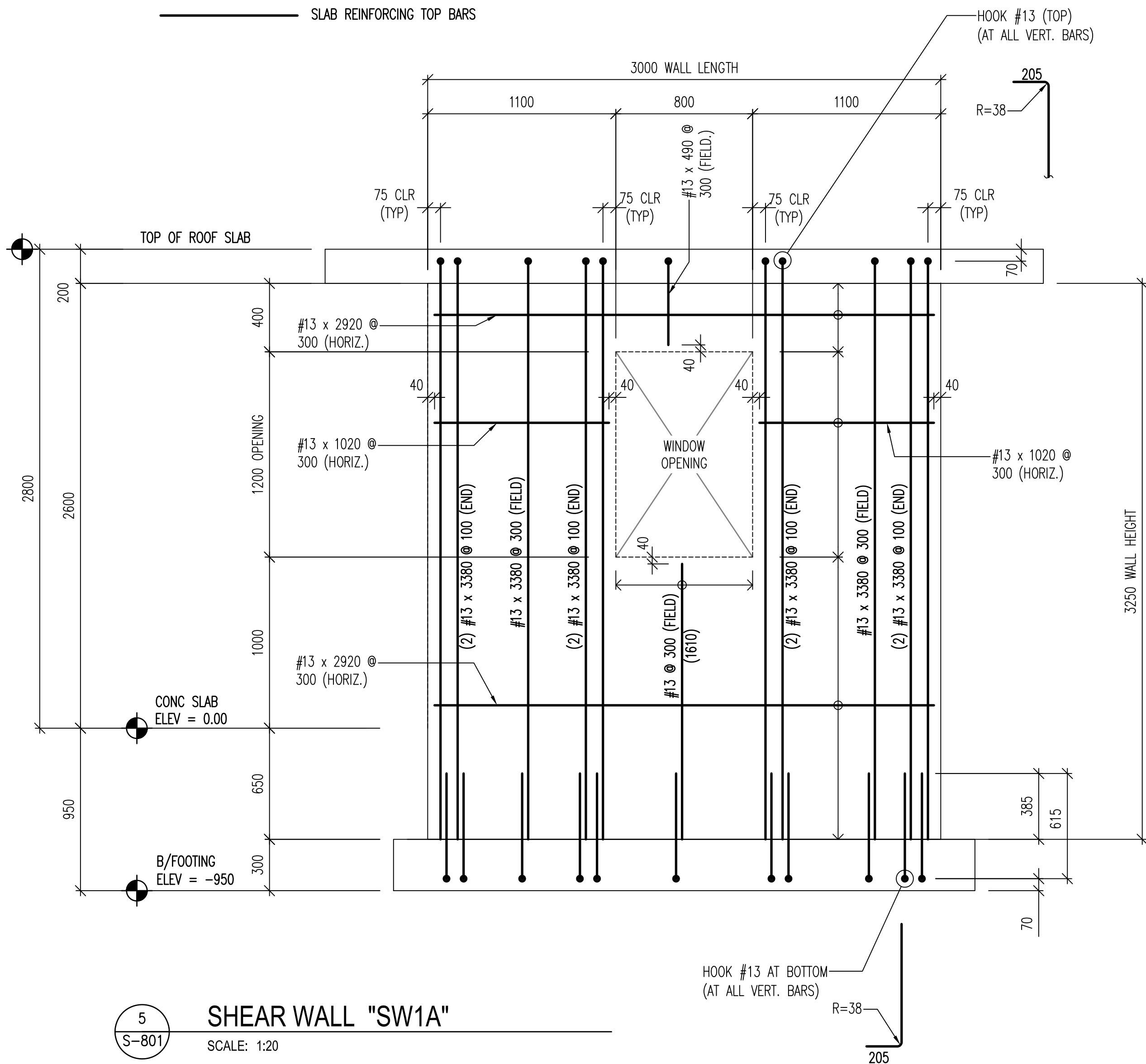
- CONC ROOF SLAB.

ROOF FRAMING PLAN LEGEND:

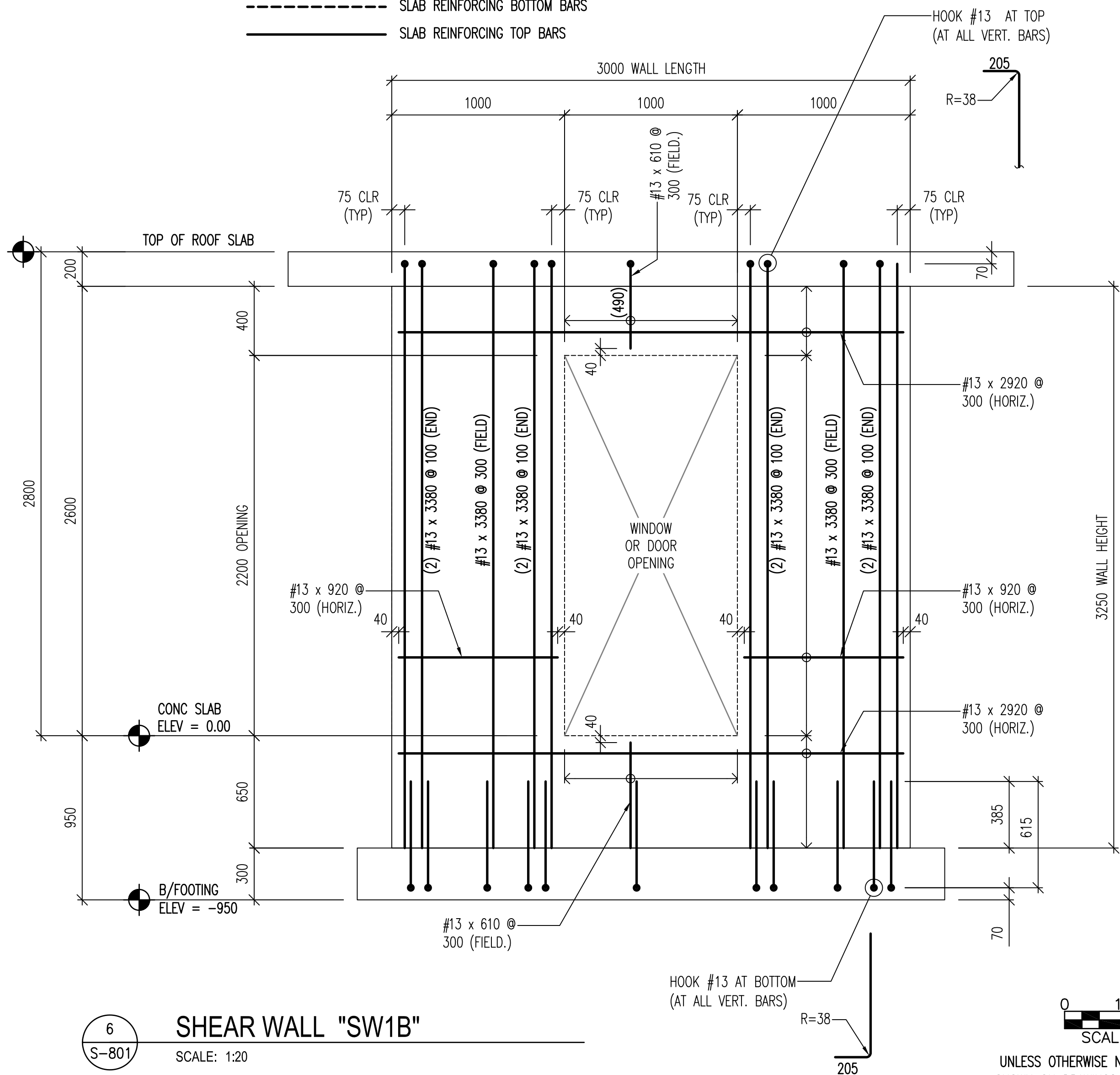
- SLAB REINFORCING BOTTOM BARS
- SLAB REINFORCING TOP BARS



4
S-801
TYPICAL SLAB REBAR CLEARANCES
SCALE: 1:20



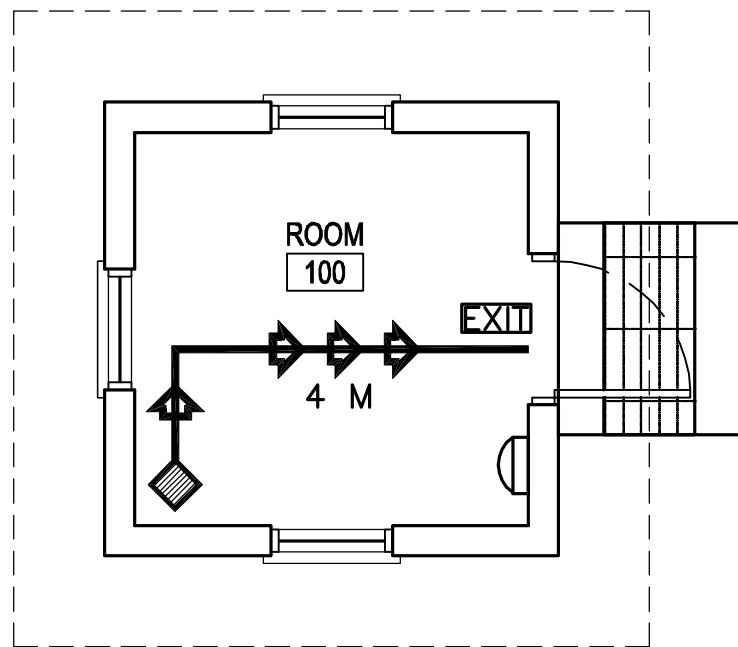
5
S-801
SHEAR WALL "SW1A"
SCALE: 1:20



6
S-801
SHEAR WALL "SW1B"
SCALE: 1:20

0 1000 2000
SCALE: 1:50

UNLESS OTHERWISE NOTED, LINEAR DIMENSIONS
SHOWN ON DRAWINGS ARE IN MILLIMETERS (mm)



1
A-001

FLOOR PLAN
SCALE: 1:50

CODE ANALYSIS:

- REFERENCES:
2006 INTERNATIONAL BUILDING CODE (2006 IBC)
2006 LIFE SAFETY CODE (2006 NFPA 101)
- IBC OCCUPANCY CLASSIFICATION:
GROUP B (BUSINESS NFPA 101 6.1.11 AND CHAPTER 38)
- TYPE OF CONSTRUCTION (IBC): TYPE II-B (UNPROTECTED/NONSPRINKLERED)
- IBC TABLE 503: ALLOWABLE HEIGHT AND BUILDING AREAS:
GROUP B
ALLOWABLE AREA: 2,137 SM
ALLOWABLE HEIGHT: 3 STORIES (16 M)

GROUP B
PROPOSED AREA: 12 SM
PROPOSED HEIGHT: 1 STORY (<16 M)

- IBC TABLE 601 & 602: FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS FOR TYPE II-B

BUILDING ELEMENT	RATING (HOUR)	REFERENCE
STRUCTURAL FRAME (COLUMNS, GIRDERS & TRUSSES)	0	TABLE 601
BEARING WALLS EXTERIOR	0	TABLE 601
INTERIOR	0	TABLE 601
NONBEARING WALLS & PARTITIONS INTERIOR	0	TABLE 601
FLOOR CONSTRUCTION	0	TABLE 601
ROOF CONSTRUCTION	0	TABLE 601
EXTERIOR WALL	0	TABLE 602

- IBC TABLE 803.5 – INTERIOR WALL AND CEILING FINISH REQUIREMENTS FOR B OCCUPANCY/NONSPRINKLERED

GROUP	EXIT ENCLOSURES AND EXIT PASSAGEWAY	CORRIDORS	ROOMS AND ENCLOSED SPACES
B	A	B	C

- NFPA 101 TABLE 7.3.1.2 – OCCUPANT LOAD
BUSINESS = 9.3 SM/PERSON BUSINESS PROPOSED = 2 OCCUPANTS

- NFPA 101 TABLE 7.3.3.1 – EGRESS CAPACITY
BUSINESS = 5 MM PER OCCUPANT

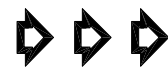
REQUIRED: 10 MM (2 OCCUPANTS x 5 MM PER OCCUPANT)
PROPOSED EGRESS CAPACITY: (1) 900 MM DOORS

- NFPA 101 PARAGRAPH 38.2.6.2 – EXIT ACCESS TRAVEL DISTANCE (NONSPRINKLERED)
REQUIRED: 60 METERS
PROPOSED: 4 METERS

- NFPA 101 PARAGRAPH 38.3.6.1(1) & (2) – CORRIDORS
NO RATED CORRIDOR REQUIRED (NONSPRINKLERED):
(1) ALL EXITS ARE AVAILABLE FROM AN OPEN FLOOR AREA
(2) SPACE IS OCCUPIED BY A SINGLE TENANT

- NFPA 101 PARAGRAPH 38.2.4.1 – NUMBER OF EXITS
BUSINESS REQUIRED: 1 MINIMUM
BUSINESS PROPOSED: 1 EXIT

LEGEND:



DENOTES PATHS OF EXIT TRAVEL



DENOTES DOOR AS AN EMERGENCY EXIT



DENOTES STARTING POINT FOR TRAVEL DISTANCE



DENOTES FIRE EXTINGUISHER LOCATIONS

LINEAR DIMENSIONS SHOWN
ARE IN MILLIMETERS (MM),
UNLESS OTHERWISE NOTED

0 1000 2000
SCALE: 1:50



US ARMY CORPS
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ENGINEER DISTRICT

Rev.	Date	Appr.	Mark	Description
0	2/23/10			

Rev.	Date	Appr.	Mark	Description
0	2/23/10			

Rev.	Date	Appr.	Mark	Description
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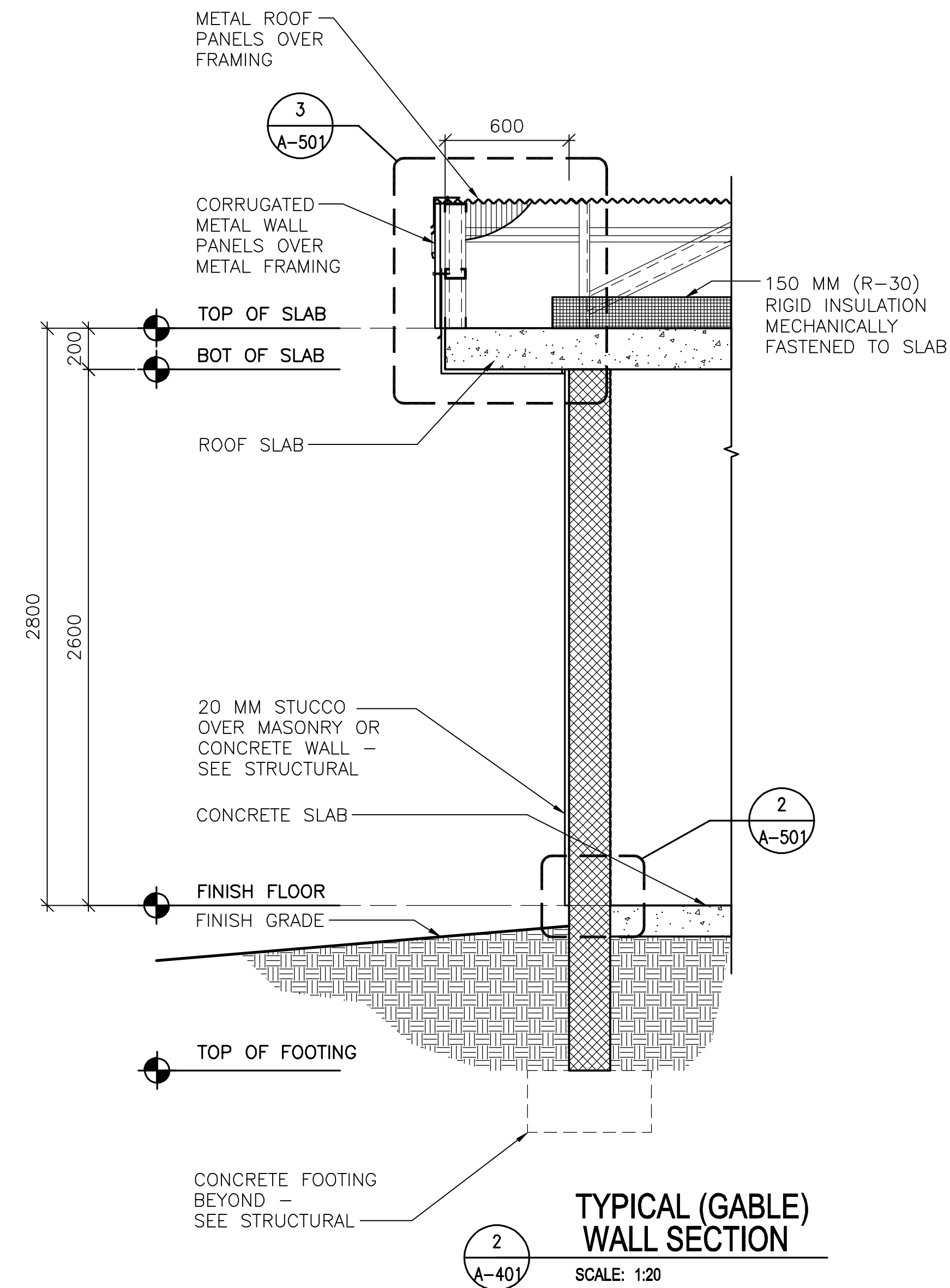
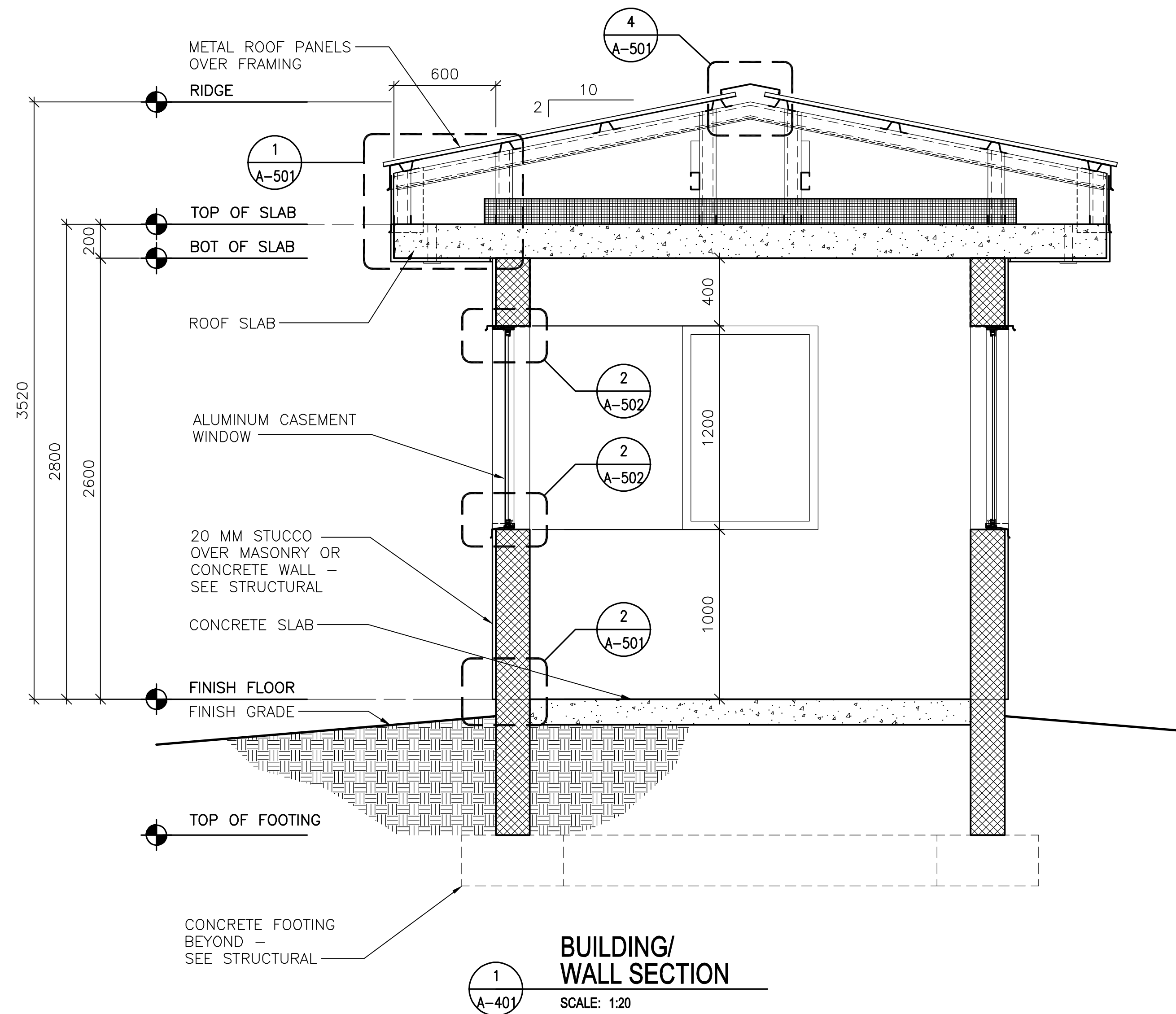
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REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

FUEL OPERATORS BUILDING

WALL SECTIONS

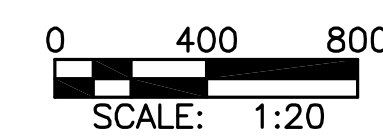
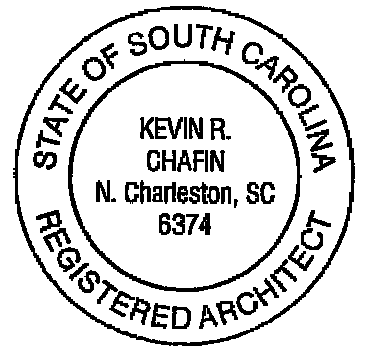
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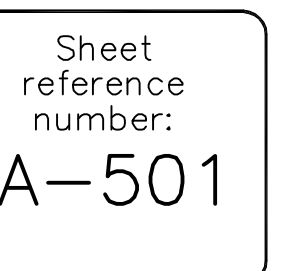


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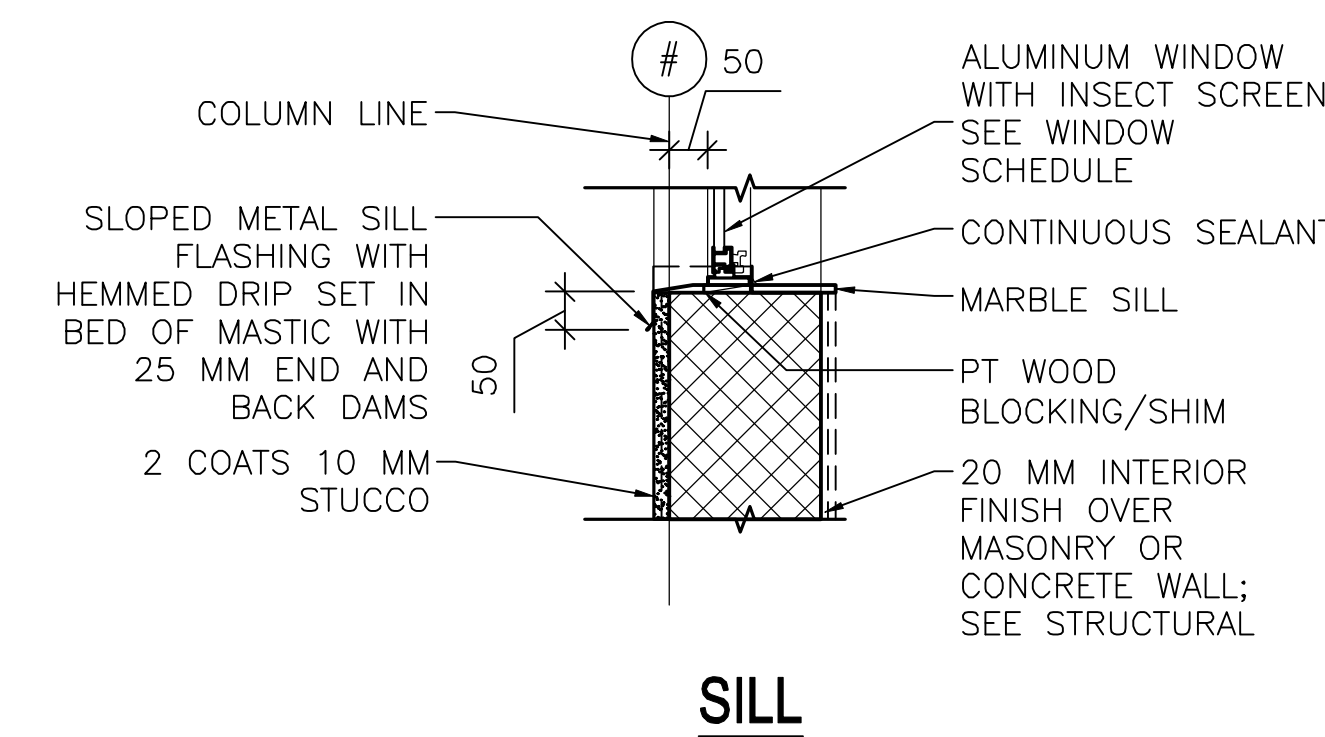
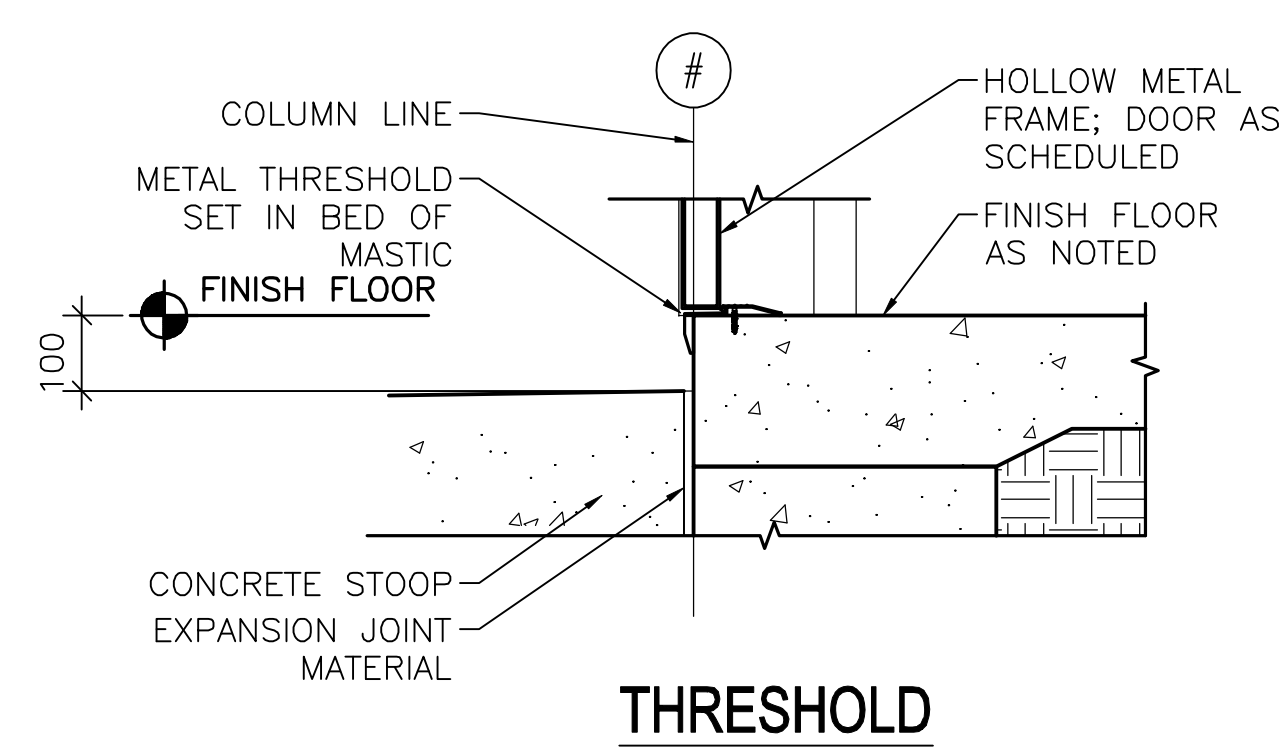
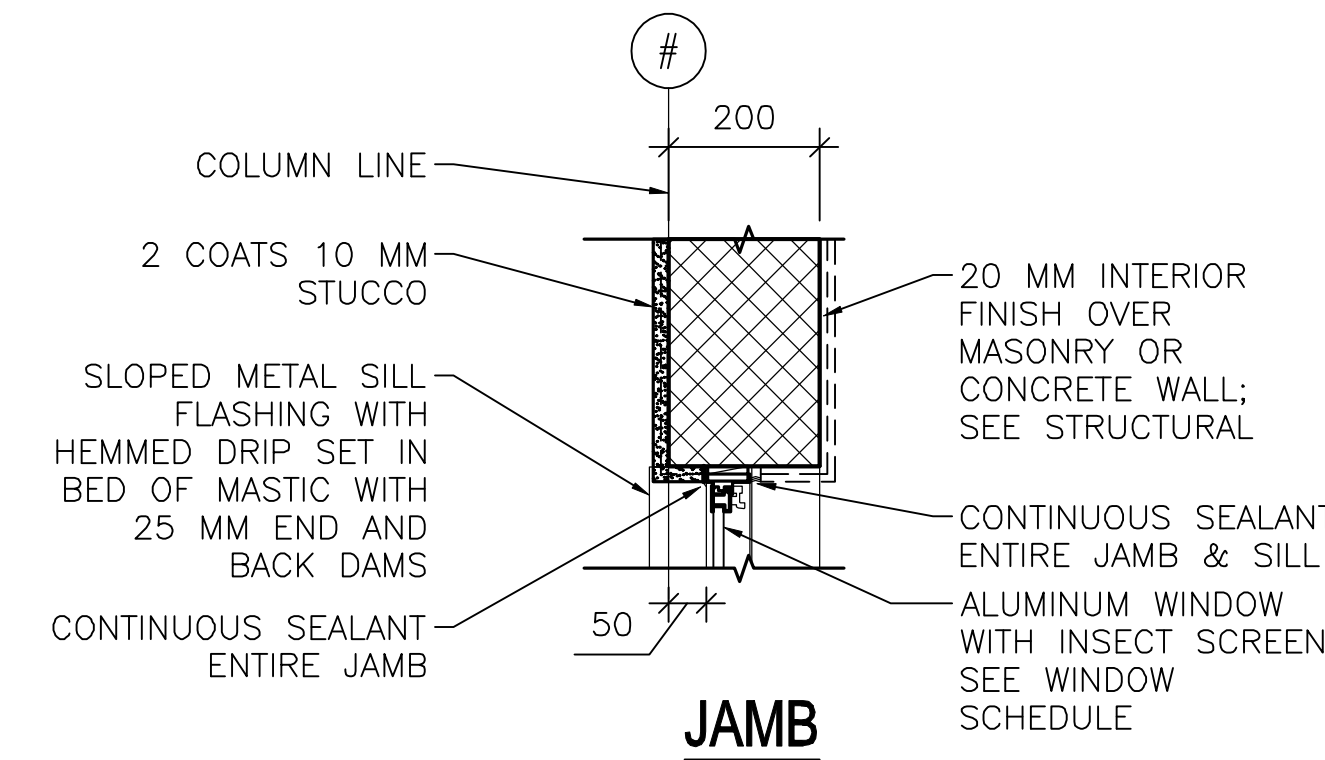
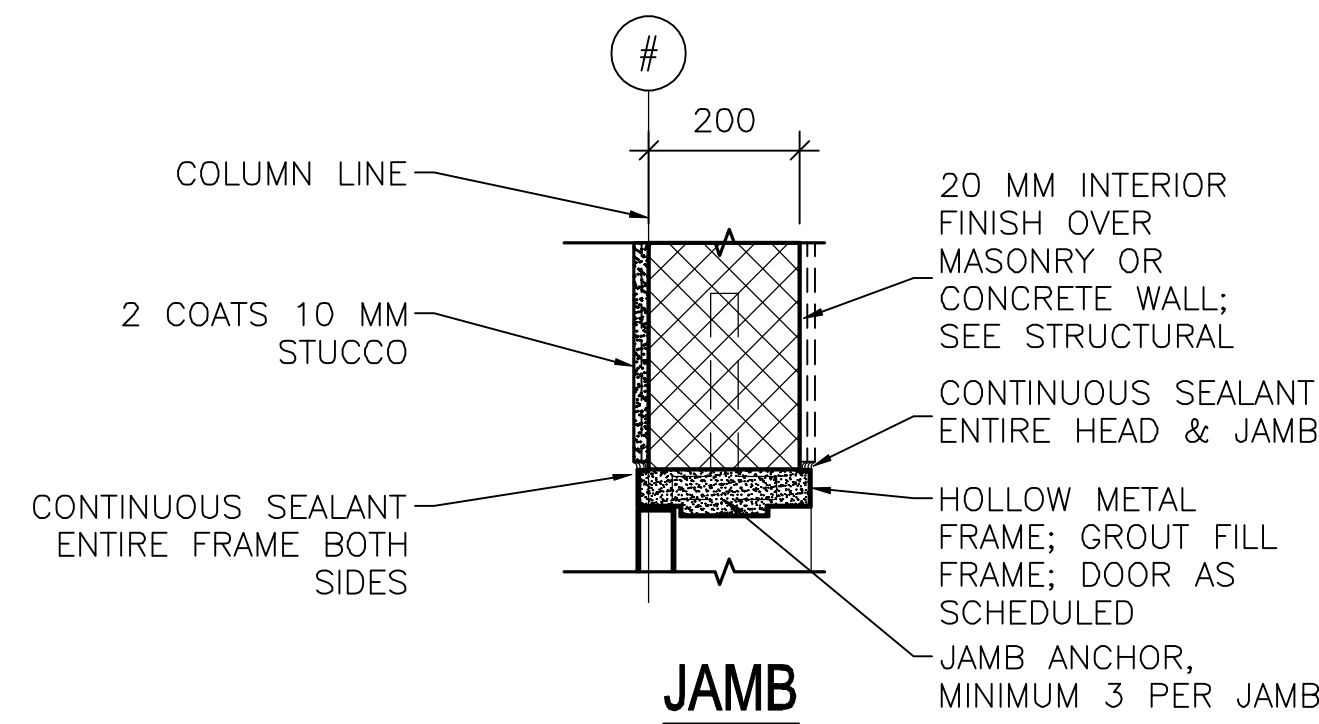
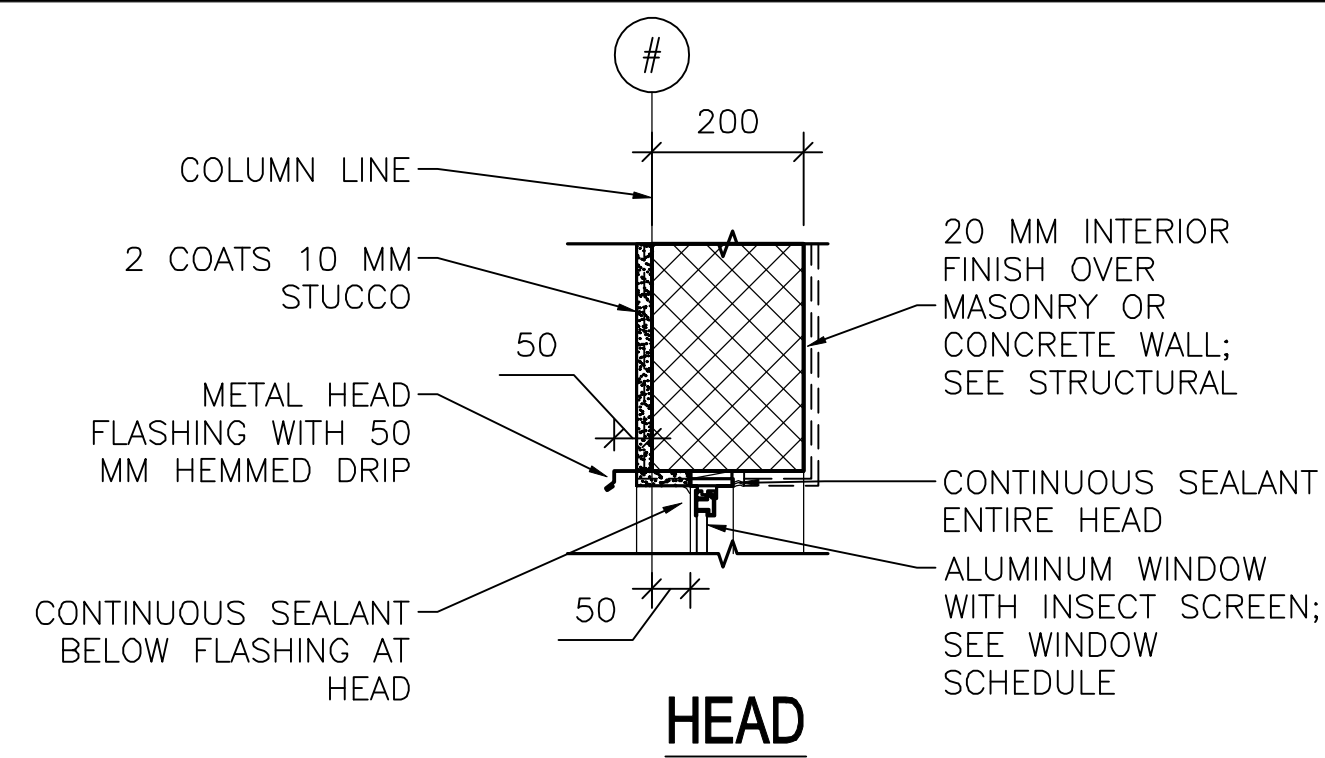
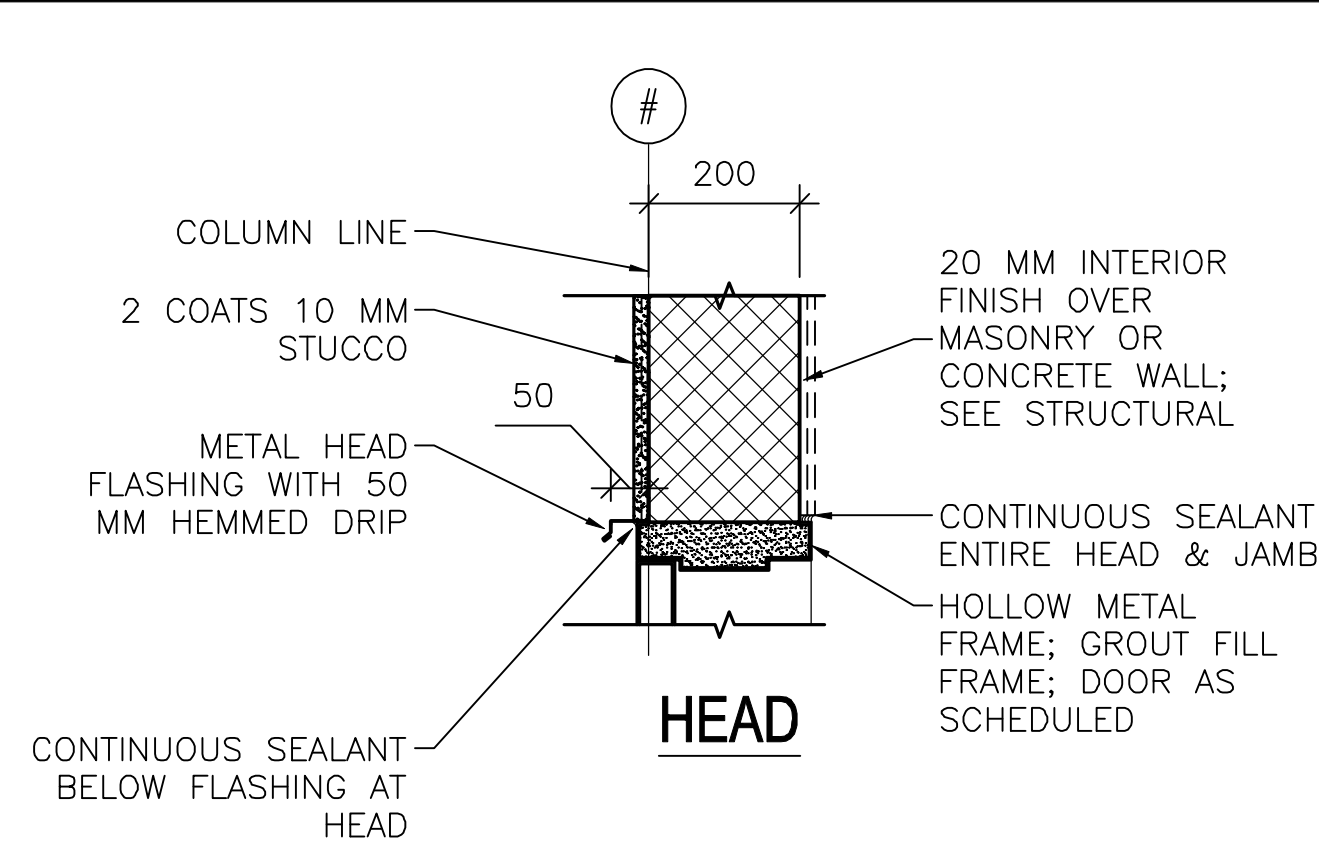
APPROVED: X. R. Ch.

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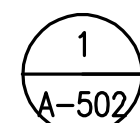
US ARMY CORPS
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AFGHANISTAN
ENGINEER DISTRICT

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AFGHANISTAN ENGINEER DISTRICT	KRC	2/23/10	0
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Afghanistan Engineer District Molnar Baker & Associates 1000 Alameda Drive Moen Township PA 15108 www.molnarscorp.com	Des by: AAR	Old by: NLJ	
	Reviewed by: LHM	Drawing code:	
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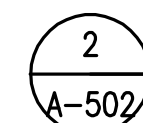
FUEL OPERATORS BUILDING
HEAD, JAMB & SILL
DETAILS

Sheet
reference
number:
A-502



EXTERIOR DOOR DETAILS

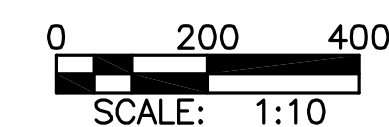
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EXTERIOR WINDOW DETAILS

SCALE: 1:10

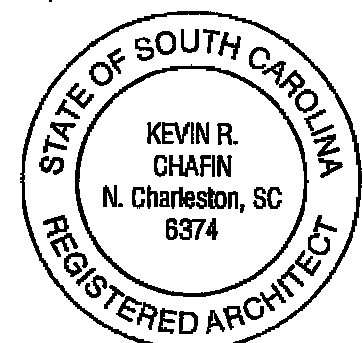
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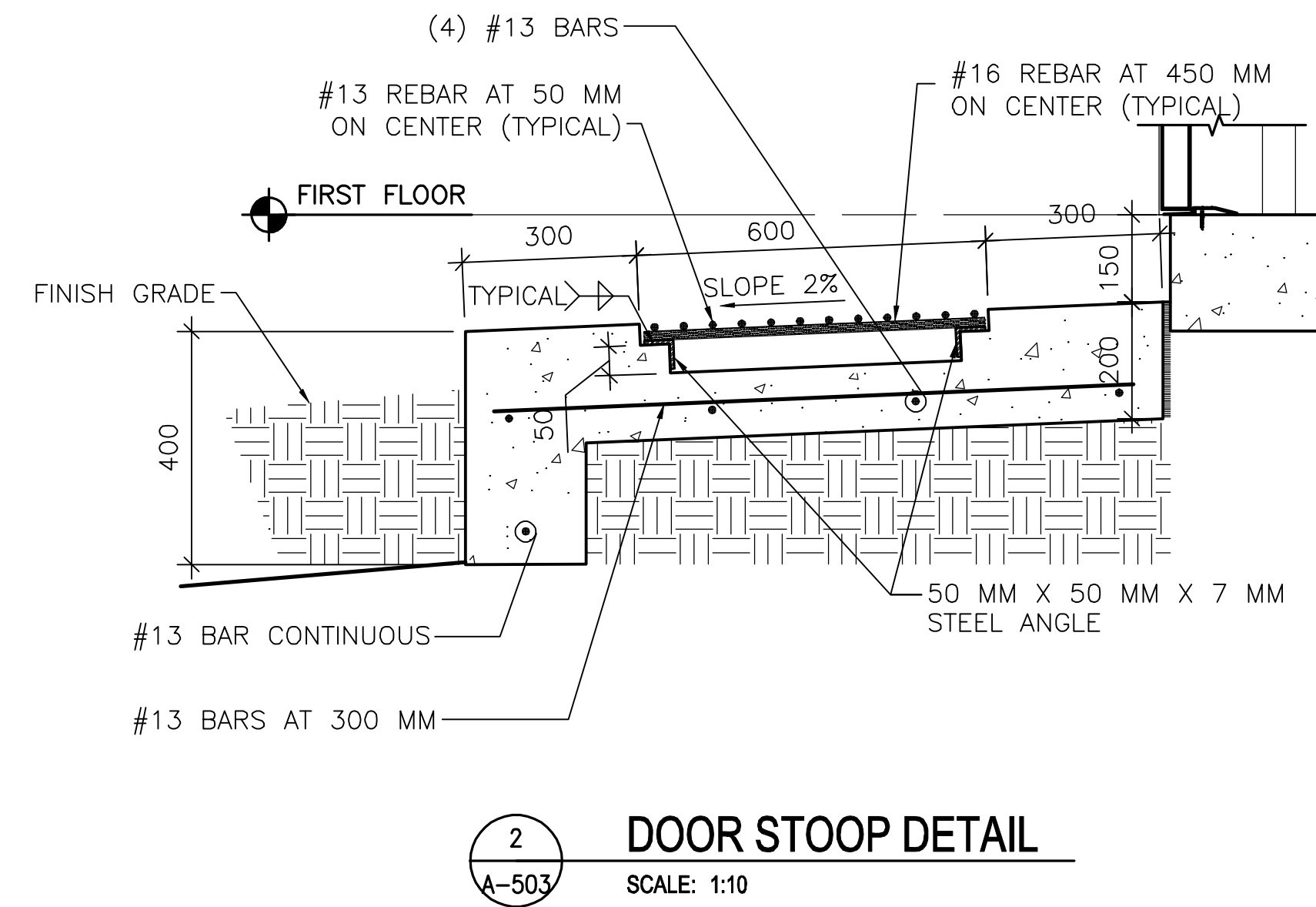
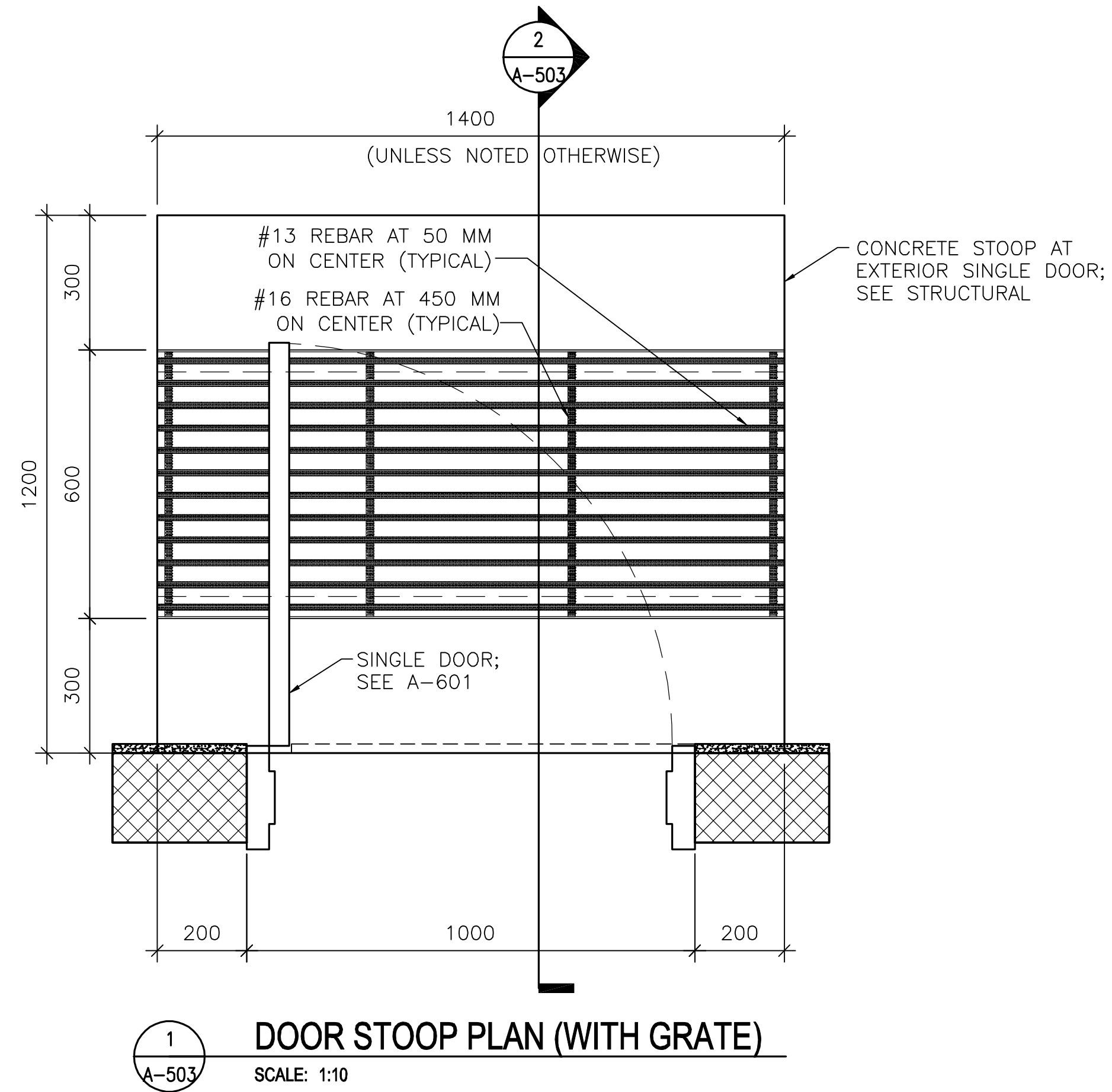


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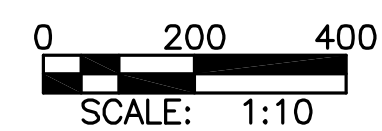
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REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

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A-503



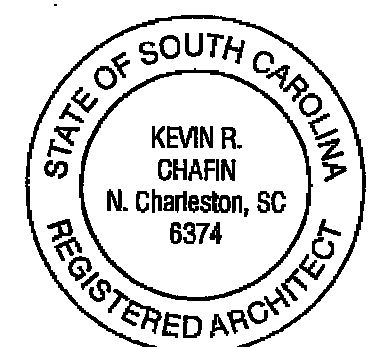
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ARE IN MILLIMETERS (MM),
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AFGHAN NATIONAL ARMY
REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

FUEL OPERATORS BUILDING

STOOP
DETAILS

Sheet
reference
number:
A-503



US ARMY CORPS
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THIS SHEET IS STANDARD AND IS INCLUSIVE OF ALL THE DOOR/
WINDOW/ HARDWARE TYPES FOR THE ENTIRE RMTc CONTRACT. NOT
ALL DOOR/ WINDOW/ HARDWARE TYPES ARE USED FOR ANY
PARTICULAR BUILDING DESIGN. CONTRACTOR SHALL REFER TO THE
FLOOR PLAN FOR THE TYPES BEING USED.

INTERIOR DOOR HARDWARE TYPES:

- HW-5 1-1/2 PR HINGES, A8133 114 X 114
1 EA LOCKSET W/LEVER HANDLES, F08, GRADE 1
1 EA WALL STOP, L02101 OR L02161
3 EA DOOR SILENCERS, L03011
- HW-6 1-1/2 PR HINGES, A8112 114 X 114
1 EA LOCKSET W/LEVER HANDLES, F08, GRADE 1
1 EA WALL STOP, L02101 OR L02161
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
3 EA DOOR SILENCERS, L03011
- HW-7 1-1/2 PR HINGES, A8133
1 EA LOCKSET W/LEVER HANDLES, F13 GRADE 1
1 EA WALL STOP, L02101 OR L02161
2 EA MOP PLATE, J103
3 EA DOOR SILENCERS, L03011
- HW-8 1-1/2 PR HINGES, A8112
1 EA LOCKSET W/LEVER HANDLES, F13 GRADE 1
1 EA WALL STOP, L02101 OR L02161
2 EA MOP PLATE, J103
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
3 EA DOOR SILENCERS, L03011
- HW-9 1-1/2 PR HINGES, A5112 114 X 114
1 EA RIM EXIT DEVICE, TYPE 1
1 EA CYLINDER. E09221A, GRADE 1
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
3 EA DOOR SILENCERS, L03011

EXTERIOR DOOR HARDWARE TYPES:

- HW-1 1-1/2 PR HINGES, A5112 114 X 114
1 EA RIM EXIT DEVICE, TYPE 1
1 EA CYLINDER. E09221A, GRADE 1
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
1 EA THRESHOLD, J32130
3 EA DOOR SILENCERS, L03011
- HW-2 1-1/2 PR HINGES, A5112 114 X 114
1 EA LOCKSET, F13 ENTRY LOCK W/LEVER HANDLES, GRADE 1
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
1 EA THRESHOLD, J32130
3 EA DOOR SILENCERS, L03011
- HW-3 3 PR HINGES, A5112 114 X 114
2 EA RIM EXIT DEVICE, TYPE 1
2 EA CYLINDER. GRADE 1
2 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
1 EA DOOR COORDINATOR, TYPE 21
1 EA ASTRAGAL
1 EA THRESHOLD, J32130
2 EA DOOR SILENCERS, L03011
- HW-4 3 PR HINGES, A5112 114 X 114
1 EA LOCKSET W/LEVER HANDLES. GRADE 1, F13
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
2 EA MAGNETIC HOLDER PIN, ATTACHED TO DOOR LEAF
2 EA MAGNETIC HOLDER RECEIVER, ATTACHED TO STOOP
2 EA LEVER EXTENSION FLUSH BOLTS, L04081
1 EA ASTRAGAL
1 EA THRESHOLD, J32130
2 EA DOOR SILENCERS, L03011

DOOR AND HARDWARE NOTES:

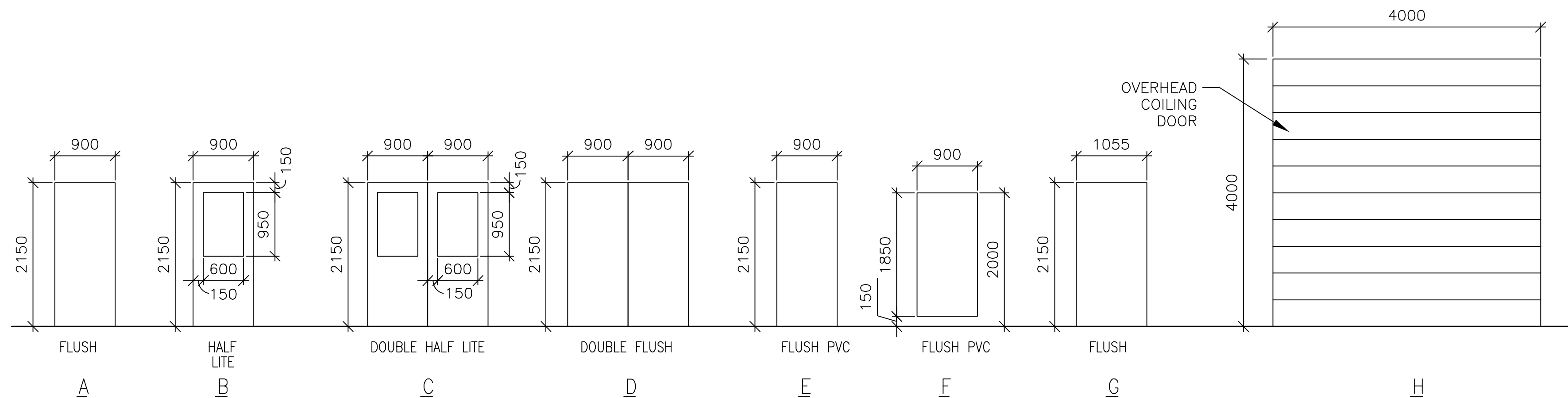
- INTERIOR AND EXTERIOR METAL DOORS AND FRAME COLORS SHALL MATCH ADJACENT WALL COLORS AS SELECTED BY THE CONTRACTING OFFICER.
- FRAMES, EXCEPT FIRE-RATED FRAMES, SHALL BE MOUNTED AND ADJUSTED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. FRAMES SHALL BE FASTENED WITH MINIMUM OF THREE ANCHORS PER JAMB AT EQUAL INTERVALS.
- DIMENSIONS SHOWN ON DOOR TYPES DETAIL ARE BASED UPON MODULAR MASONRY (OR ROUGH OPENING), HEIGHT OF 2200 MM FOR STANDARD PERSONNEL DOORS. CONTRACTOR SHALL COORDINATE WITH DOOR SUPPLIER TO ENSURE THAT DIMENSIONS OF DOORS AND FRAMES PROVIDED ARE COMPATIBLE WITH DOOR OPENING DIMENSIONS.
- HARDWARE SHALL BE HEAVY DUTY, COMMERCIAL GRADE, STAINLESS STEEL WITH A SATIN OR BRUSHED FINISH.
- HARDWARE TYPES INCLUDE BUILDERS HARDWARE MANUFACTURERS ASSOCIATION (BMHA) NUMBER.
- DOORS IN 2 HOUR RATED PARTITIONS SHALL BE 1.5 HOUR (90 MINUTE) RATED DOORS IN ACCORDANCE WITH NFPA 101, TABLE 8.3.4.2.
- DOORS AT STAIR ENCLOSURES SHALL BE 1 HOUR (60 MINUTE) RATED AT 1 HOUR WALL IN ACCORDANCE WITH NFPA 101, TABLE 8.3.4.2.
- DOORS IN 1 HOUR RATED WALLS SHALL BE 3/4 HOUR (45 MINUTE) RATED DOORS IN ACCORDANCE WITH NFPA 101, TABLE 8.3.4.2.
- DOORS IN 1 HOUR RATED CORRIDOR WALLS SHALL BE 1/3 HOUR (20 MINUTE) IN ACCORDANCE WITH NFPA 101, TABLE 8.3.4.2.
- PROVIDE DOOR STOPS TO PROTECT WALLS ON LOCATIONS WHERE DOOR SWING WILL STRIKE WALL.

WINDOW TYPE NOTES:

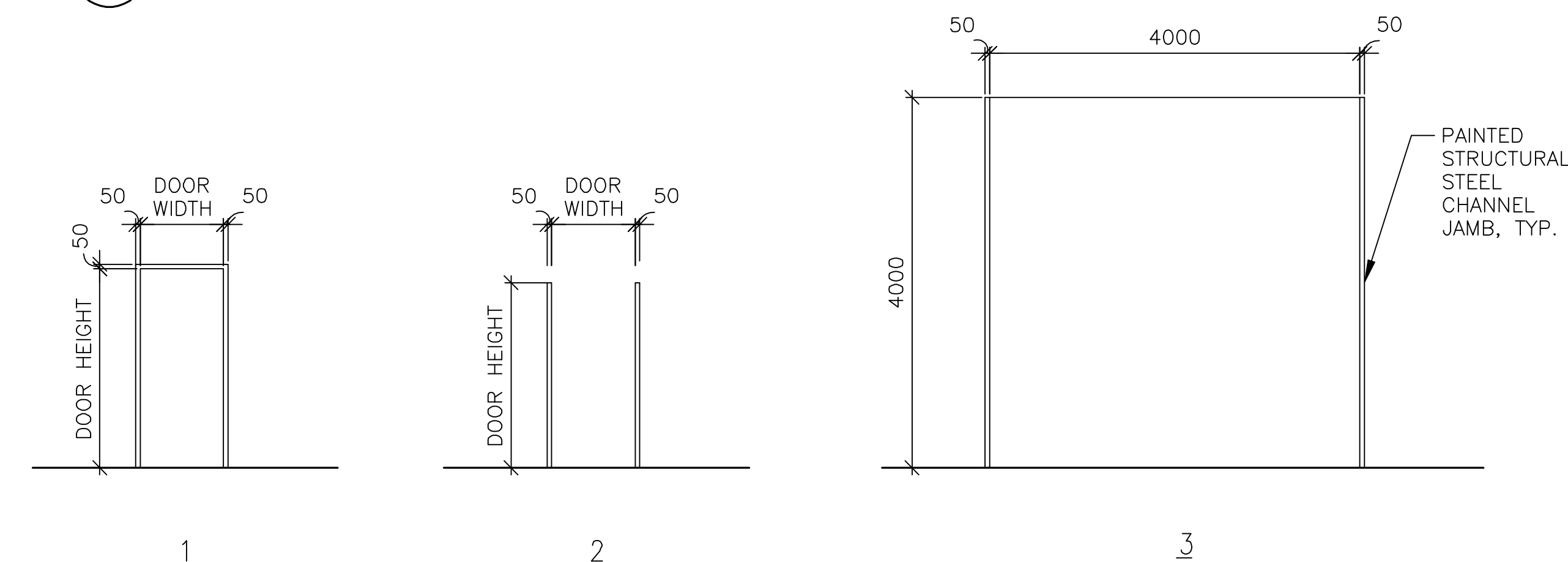
- ALL EXTERIOR WINDOWS SHALL BE ALUMINUM WITH INSECT SCREENS. WINDOWS SHALL BE COMMERCIAL GRADE.
- ALL EXTERIOR WINDOWS SHALL BE OPERABLE.

DOOR TAG NOTES:

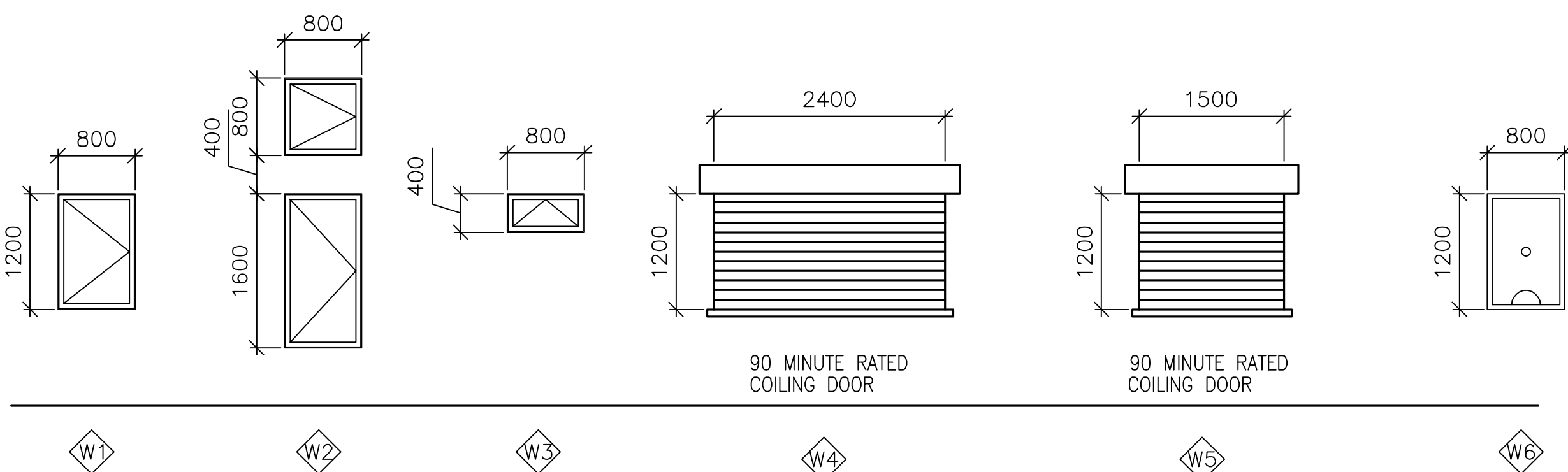
- THE DOOR TAG INDICATES THE DOOR TYPE, FRAME TYPE AND HARDWARE SET FOR EACH DOOR.
- THE DOOR TAG FOR RATED DOORS INCLUDES THE RATING OF THE DOOR IN MINUTES.



1 DOOR TYPES
SCALE: 1:50



2 FRAME TYPES
SCALE: 1:50



3 WINDOW TYPES
SCALE: 1:50



4 DOOR TAG
SCALE: NTS

5 RATED DOOR TAG
SCALE: NTS

Rev: 0
Date: 2/23/10
Design file no.

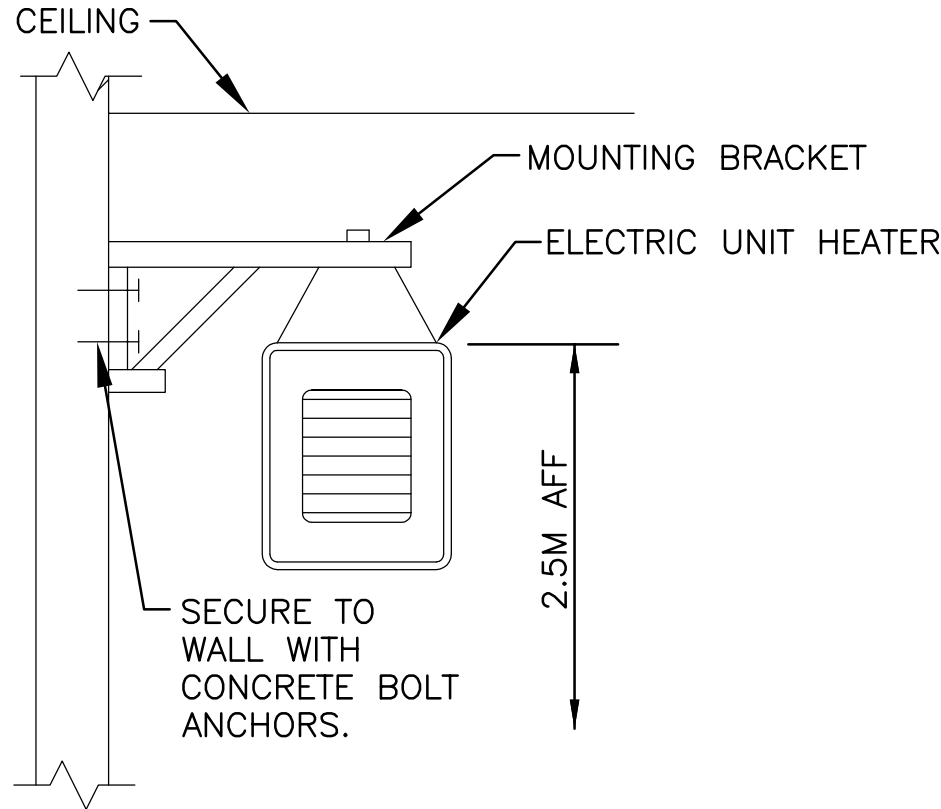
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Dwn by: AAR
Cld by: NLJ
Reviewed by: LHM
Submitted by: BAKER

U.S. ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT
APO AE 96338
Michael Baker Corp., Inc.
A unit of Michael Baker Corporation
Alside Business Park
100 Alside Drive
PA, 15108
www.mbakercorp.com

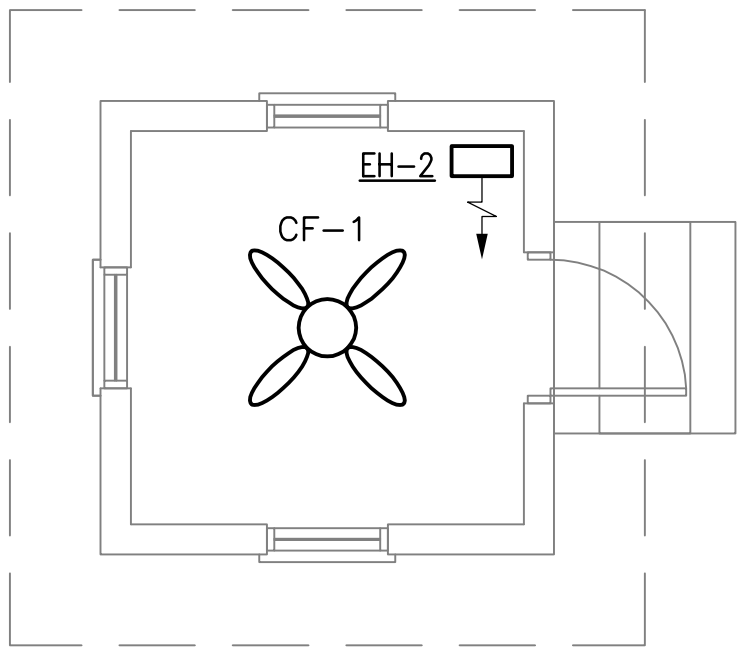
AFGHAN NATIONAL ARMY
REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN
FUEL OPERATORS BUILDING
WINDOW AND DOOR SCHEDULES

Sheet
reference
number:

A-601



2 ELECTRIC UNIT HEATER MOUNTING DETAIL
M-101 N.T.S.



1 FLOOR PLAN - HVAC
SCALE: 1:50
M-101

GENERAL NOTES:

- DO NOT SCALE DRAWINGS – ALL DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE.
- ALL WORK PERFORMED ON THIS BUILDING SHALL BE IN COMPLIANCE WITH ALL PERTINENT CODES, RULES, ORDINANCES AND REGULATIONS OF THE GOVERNING AUTHORITIES.
- ALL WORK PERFORMED UNDER AND IN CONNECTION WITH THESE DRAWINGS AND SPECIFICATIONS SHALL BE IN STRICT COMPLIANCE WITH THE LATEST SAFETY AND HEALTH STANDARDS.

SYMBOLS:

- (X) KEY NOTE
(0.050) AIR VOLUME IN CUBIC METERS PER SECOND (CMS)
UC DOOR UNDERCUT
TG 200x400 (8x16) TRANSFER GRILLE

ABBREVIATIONS:

- AFF ABOVE FINISH FLOOR
CF CEILING FANS
CMS CUBIC METERS PER SECOND
STATS THERMOSTATS

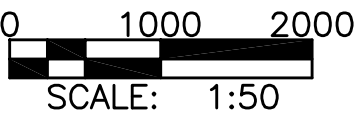
ELECTRIC UNIT HEATER SCHEDULE					
NO.	CMS	KW	F.A.T. °C	ELECT. CHAR.	MOUNTING
EH-2	.200	2.6	38	380/1/50	WALL HUNG

- NOTES:
1. TOP OF UNIT HEATER SHALL BE MOUNTED 2.2M AFF.
2. UNIT HEATERS SHALL HAVE TAMPER PROOF INTEGRAL STATS.
3. COORDINATE LOCATION AND ORIENTATION IN FIELD.

CEILING FAN					
NO.	BLADE SIZE		VOLTAGE	SWITCH	REMARKS
	mm	IN			
CF-1	1320	52	220/1/50	Ⓢ WALL	3 SPEED REVERSIBLE MOTOR

- NOTES:
1. INSTALL FANS 2.5M AFF.
2. PROVIDE WITH OUT LIGHT FIXTURE.
3. PROVIDE WITH REMOTE MOUNTED ON-OFF SWITCH SHOWN ON ELECTRICAL DRAWINGS.

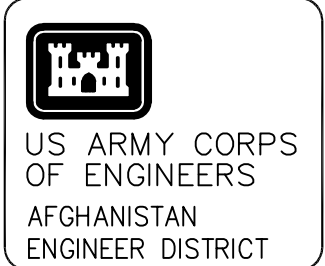
LINEAR DIMENSIONS SHOWN
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U.S. ARMY CORPS OF ENGINEERS
AFGHANISTAN ENGINEER DISTRICT
APO AE 96338

Designed by: RML
Dwn by: JJN
Gld by: CUM
Reviewed by: MRS
Submitted by: BAKER

Michael Baker Jr., Inc
A unit of Michael Baker Corporation
Arside Business Park
Moon Township, PA 15108
www.mbakercorp.com

Date: 02/23/10
Design file no.
Drawing code:
File name: ANAF08M-10100X
Plot date: 02/09/2010
Plot scale: 1:50

AFGHAN NATIONAL ARMY
REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

FUEL OPERATORS BUILDING
HVAC – FLOOR PLAN,
SCHEDULES AND DETAILS

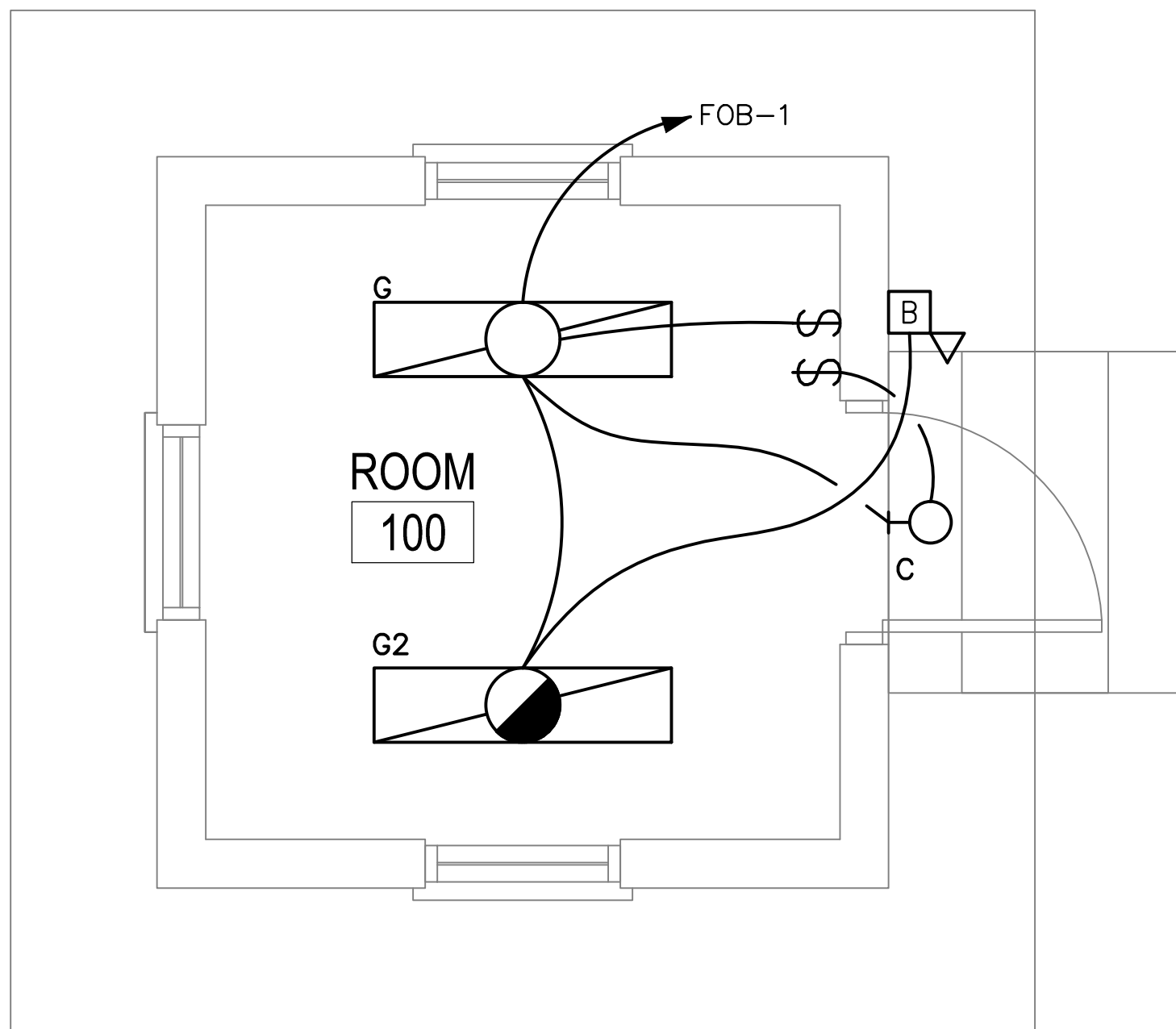
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D

C

B

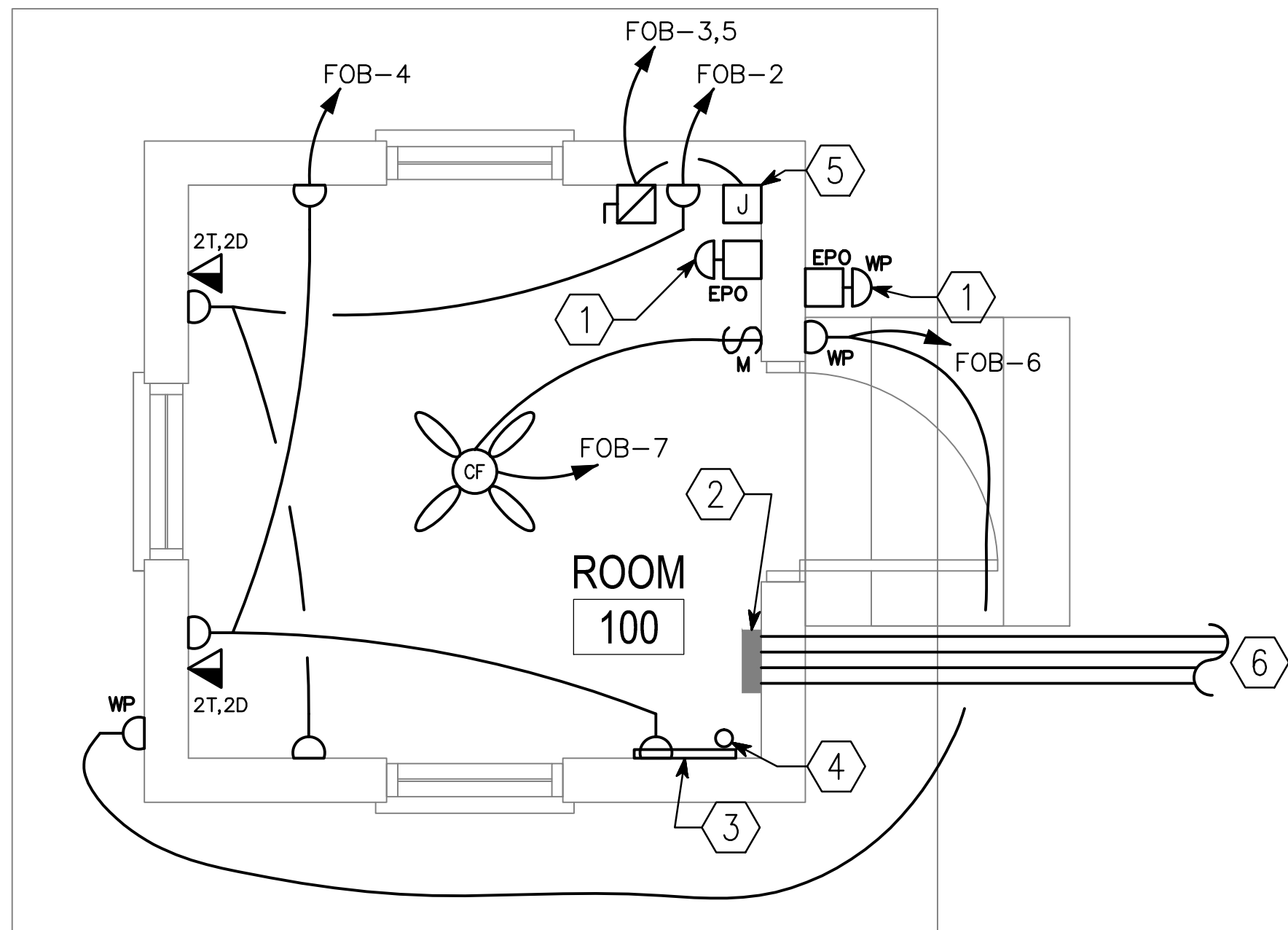
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1
E-101

FUELING OBSERVATION BUILDING FLOOR PLAN - LIGHTING

SCALE: 1:25



2
E-101

FUELING OBSERVATION BUILDING FLOOR PLAN - POWER AND SYSTEMS

SCALE: 1:25

GENERAL NOTES:

1. REFER TO DRAWING #E-001 FOR THE ELECTRICAL SYMBOLS LIST.
2. EXIT SIGNS SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING ON CIRCUITS.
3. REFER TO DRAWING #E-601 FOR THE LIGHTING FIXTURE SCHEDULE.
4. REFER TO DRAWING #E-501 FOR THE POWER RISER.
5. REFER TO DRAWING #E-602 FOR PANEL SCHEDULES.
6. LIGHT FIXTURES INDICATED AS EMERGENCY SHALL BE PROVIDED WITH A BATTERY BACKUP BALLAST. SEE WIRING DIAGRAM DETAIL 5, DRAWING #E-501.
7. COORDINATE EXACT MOUNTING LOCATION OF DISCONNECTING MEANS FOR MECHANICAL AND PLUMBING EQUIPMENT IN THE FIELD.
8. FUSIBLE SAFETY SWITCHES THAT ARE NOT OTHERWISE IDENTIFIED SHALL BE 380V, 1P, 30A FUSED SAFETY SWITCHES WITH 20A FUSES.

NUMBERED NOTES:

- ① EMERGENCY POWER OFF SWITCH TO DISABLE FUEL DISPENSING EQUIPMENT.
- ② PANEL FOB.
- ③ PROVIDE 1200mm X 2400mm SHEET OF PLYWOOD PAINTED WITH FIRE RESISTANT PAINT FOR MOUNTING TELECOMMUNICATIONS EQUIPMENT.
- ④ PROVIDE CONDUIT STUB UP IN THE ROOM FOR INCOMING TELECOMMUNICATIONS SERVICES FROM THE CENTRAL COMMUNICATIONS SYSTEM IN THE GARRISON.
- ⑤ PROVIDE POWER CONNECTION TO ELECTRIC UNIT HEATER #2. SEE DRAWINGS #M-101 AND #E-602 FOR MORE INFORMATION.
- ⑥ 4 20mm CONDUIT RUNS TO CIRCUITS FEEDING POWER AND LIGHTING AT VEHICLE REFUELING POINT AND FUEL STORAGE. CONDUIT SHALL BE RMC/IMC WITH LISTED SEALS AND INSTALLED IN ACCORDANCE WITH NEC ART. 514.



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		Plot date:	
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Drawn by: BUB	Date: 2/23/10
Reviewed by: JRG	Design file no.
Submitted by: BAKER	Drawing code:
	File name:
	Plot date:
	Plot scale:

U.S. ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT APO AE 96338	AFGHAN NATIONAL ARMY REGIONAL MILITARY TRAINING CENTER STANDARD DESIGN
Michael Baker, Jr., Inc. A unit of Michael Baker Corporation Arside Business Park 1000 Township PA 15108 www.mbakercorp.com	FUEL OPERATORS BUILDING ELECTRICAL

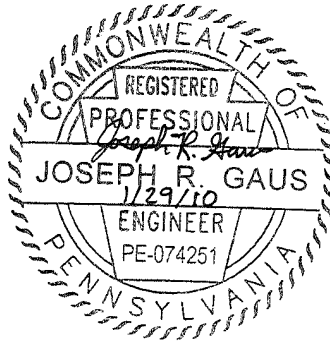
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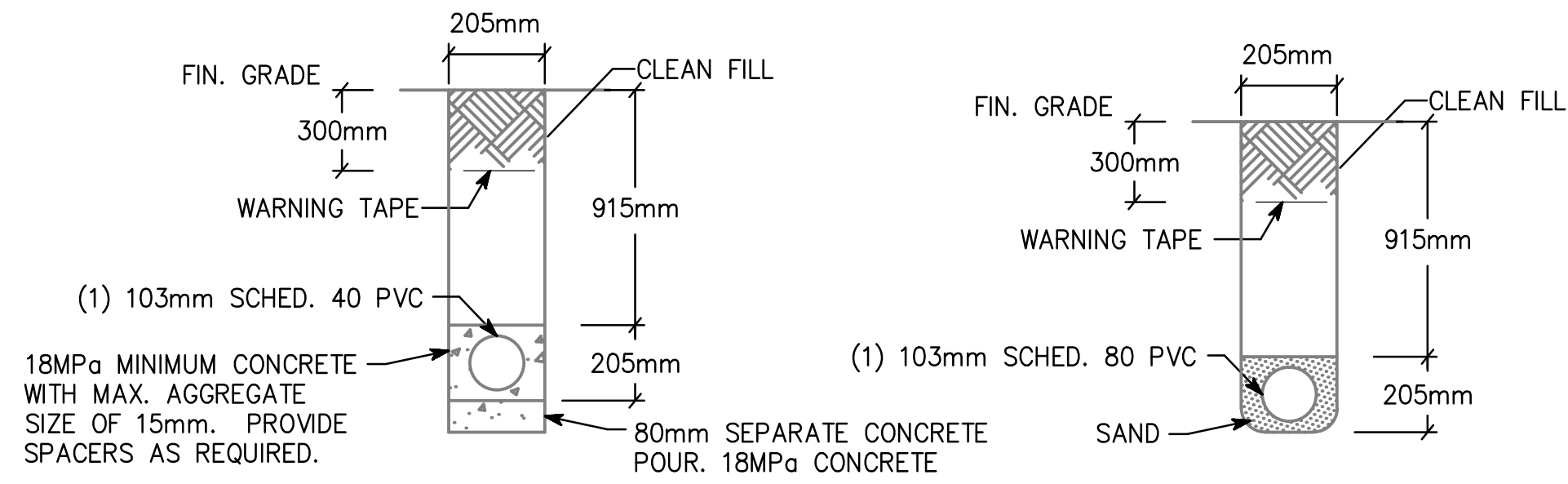
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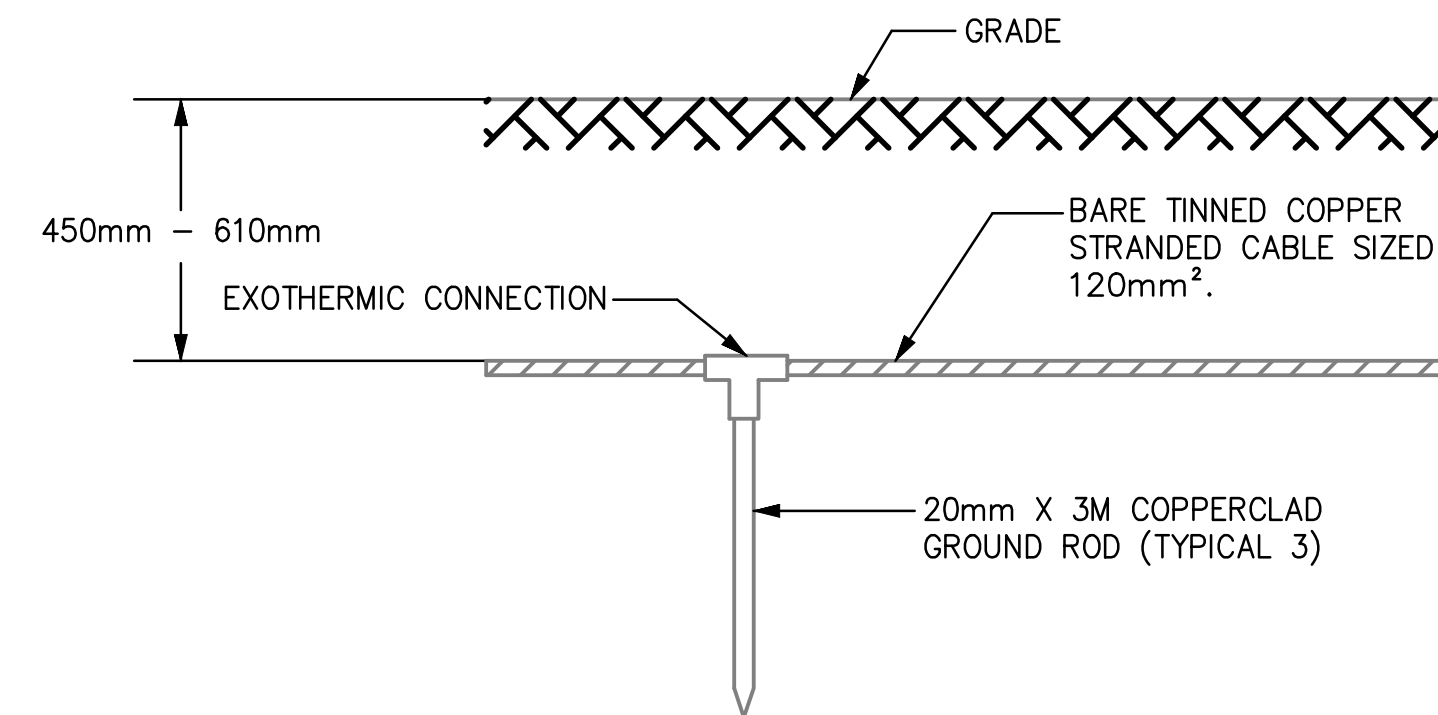


NOTE: PVC CONDUIT SHALL BE DIRECT BURIED SCHEDULE 80 FOR NO TRAFFIC AREAS AND CONCRETE-ENCASED SCHEDULE 40 FOR UNDER ROADWAYS OR TRAFFIC AREAS.

1
E-501

TYPICAL DUCT BANK DETAILS FOR CONDUIT IN SAND OR CONCRETE

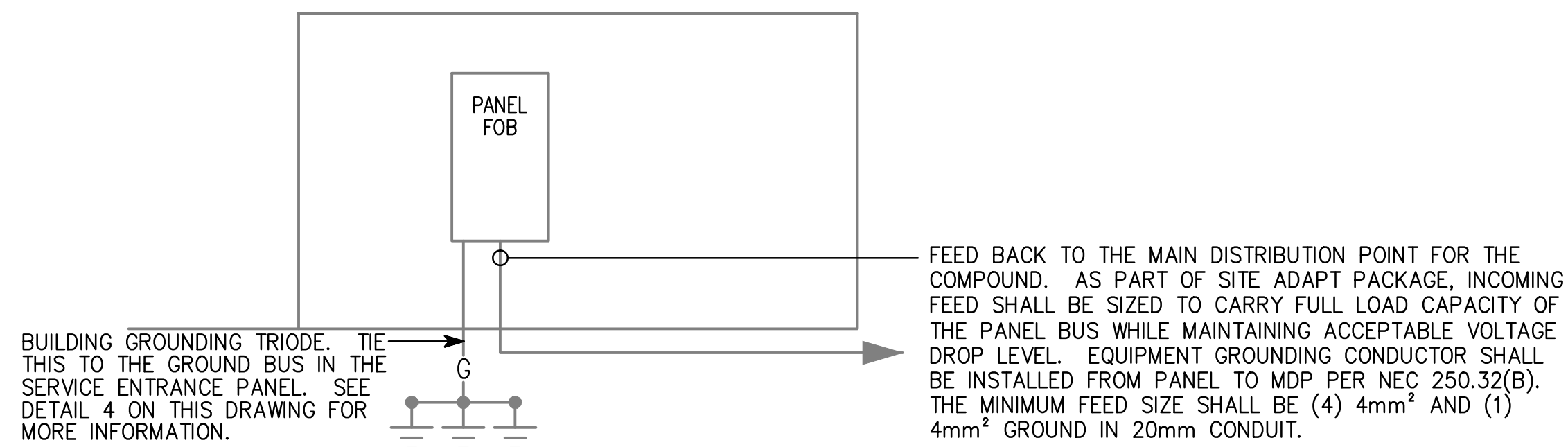
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2
E-501

GROUND TRIPOD SYSTEM DETAIL - ELEVATION

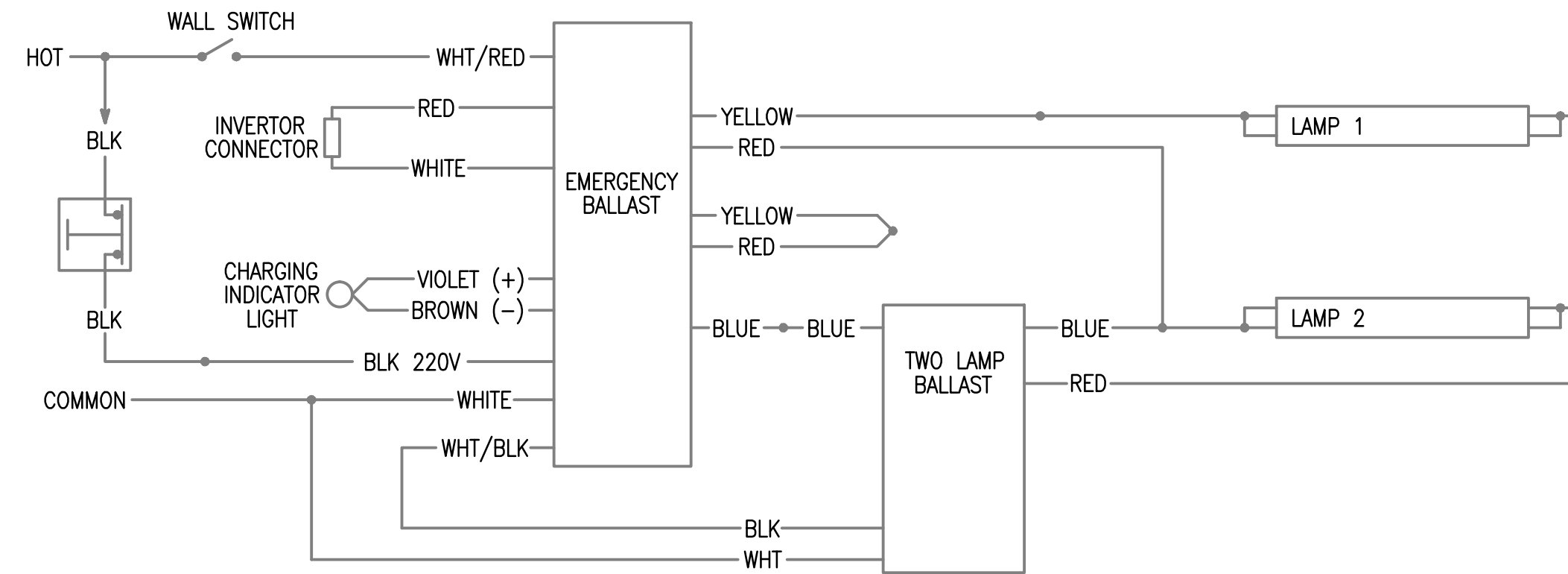
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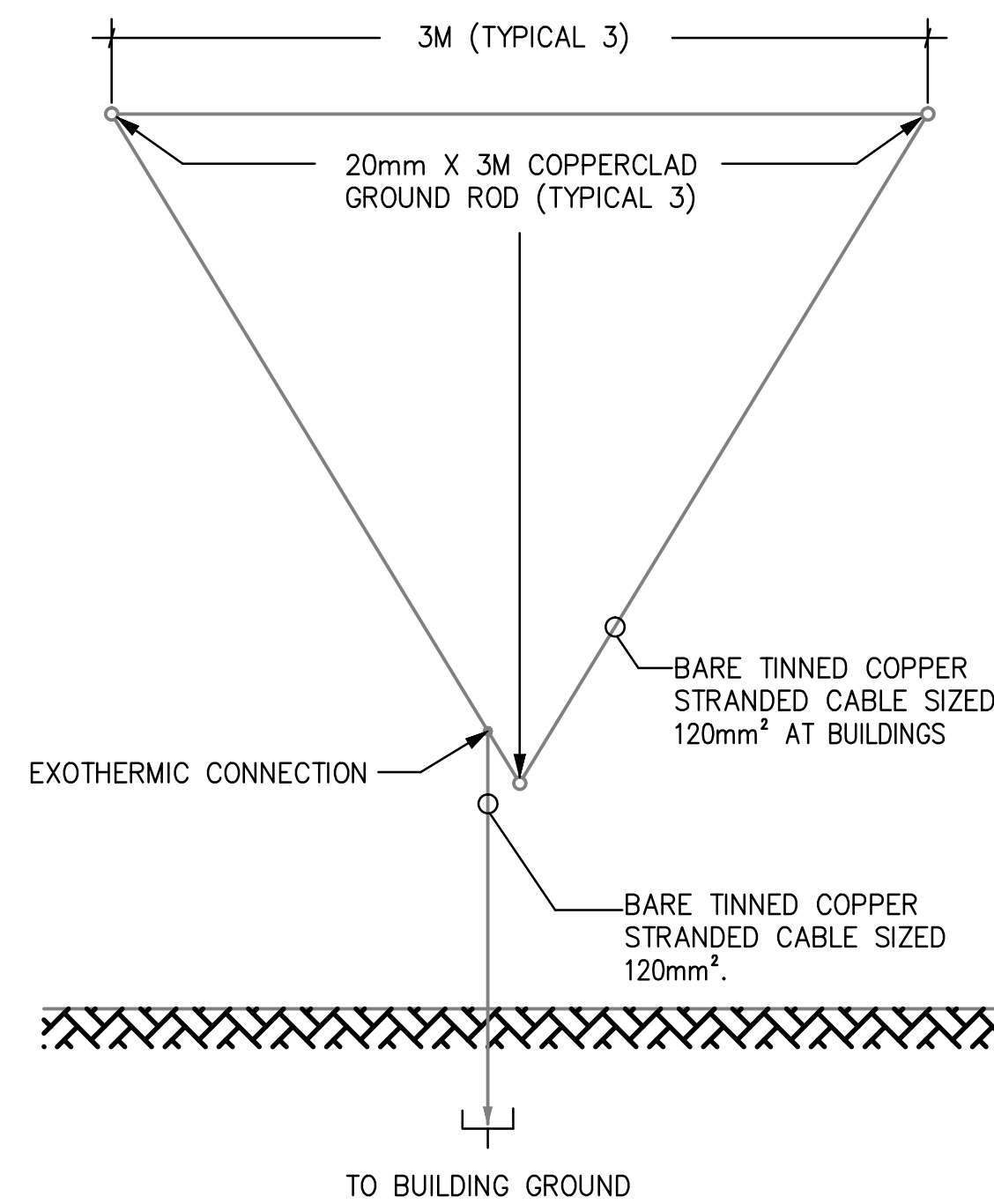
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E-501

FOB RISER DIAGRAM

SCALE: N.T.S.



5 EMERGENCY FIXTURE WIRING DIAGRAM E-501 SCALE: N.T.S.



GROUND TRIPOD SYSTEM DETAIL - PLAN

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AFGHANISTAN ENGINEER DISTRICT	APD AE 96338	Drawn by: JRG	Design file no. 2123110
Michael Baker, Inc. A unit of Michael Baker Corporation Aristide Business Park 100 Aristide Drive Moon Township, PA 15108 www.michaelbaker.com	Reviewed by: JRG	Submitted by: BAKER	File name: Plot date: Plot scale:

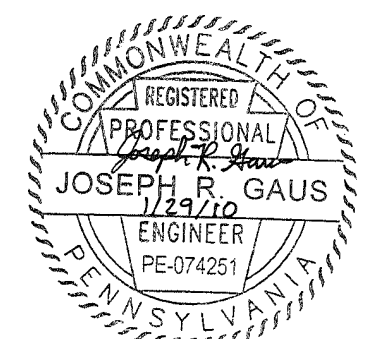
MILLIKEN RESEARCH CENTER REGIONAL STANDARD DESIGN	FUEL OPERATORS BUILDING ELECTRICAL DETAILS
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reference
number:
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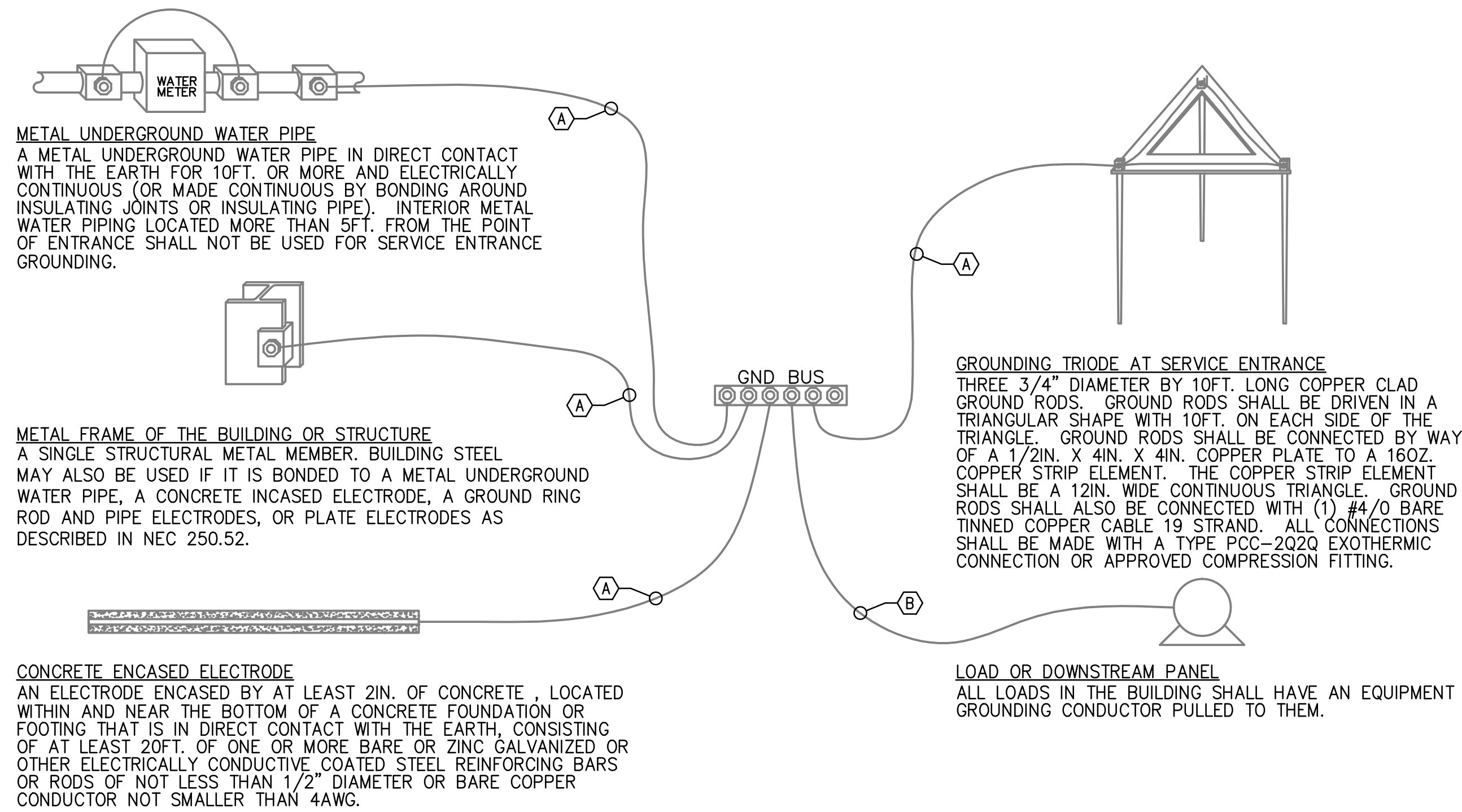
A/E DESIGNER OF RECORD

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(A) LARGER OF THE TWO SIZES GIVEN IN THE TABLES BELOW		(B) EQUIPMENT GROUNDING CONDUCTOR
GROUNDING ELECTRODE CONDUCTOR (BASED ON AIC RATING)		RATING OR SETTING OF AUTOMATIC OVERCURRENT DEVICE IN CIRCUIT AHEAD OF EQUIPMENT, CONDUIT, ETC, NOT EXCEEDING (AMPERES)
AIC RATING OF SERVICE EQUIPMENT	NECESSARY GROUNDING ELECTRODE CONDUCTOR SIZE	NECESSARY EQUIPMENT GROUNDING CONDUCTOR SIZE
10K	(1) 35mm ²	15
14K	(1) 50mm ²	20
18K	(1) 70mm ²	30
22K	(1) 70mm ²	40
25K	(1) 70mm ²	60
30K	(1) 95mm ²	100
35K	(1) 120mm ²	200
42K	(1) 150mm ²	300
65K	(1) 185mm ²	400
100K	(1) 300mm ²	500
125K	(2) 185mm ²	600
200K	(2) 300mm ²	800
GROUNDING ELECTRODE CONDUCTOR (BASED ON NEC TABLE 250.66)		1000
SIZE OF LARGEST UNGROUND SERVICE CONDUCTOR OR EQUIVALENT AREA FOR PARALLEL CONDUCTORS		1200
		1600
		2000
		2500
		3000
350 kcmil OR SMALLER		4000
OVER 350 kcmil TO 600 kcmil		5000
OVER 600 kcmil TO 1100 kcmil		6000
OVER 1100 kcmil		
NOTE: ALL SIZES ARE BASED ON COPPER CONDUCTORS.		



C

B

A



US ARMY CORPS
OF ENGINEERS
AFGHANISTAN
ENGINEER DISTRICT

[illegible]

AFS-AMT PUMPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT APO AE 96338 <i>Manoan Baker, Inc.</i> A unit of <i>Michael Baker Corporation</i> Astle Business Park Moon Township PA 15108 www.mbakercorp.com	Drawn by: JRG	Ckd by: JRG	Drawing code: JRG	File name: BAKER
	Design file no. 223410	Date 0	Plot date: BAKER	Plot scale: BAKER

REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

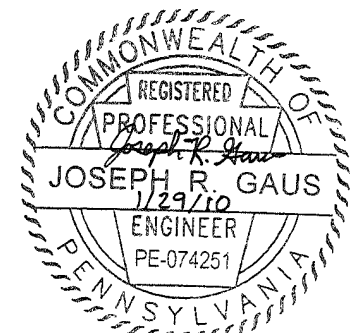
FUEL OPERATORS BUILDING
ELECTRICAL DETAILS

Sheet
reference
number:
E-502

APPROVED:

A/E DESIGNER OF RECORD

SEAL:



Sheet
reference
number:

E-502

1

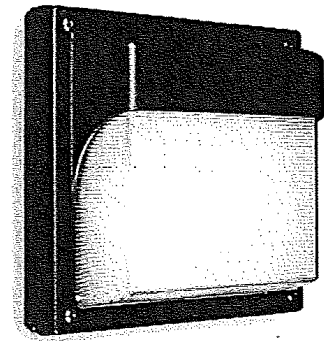
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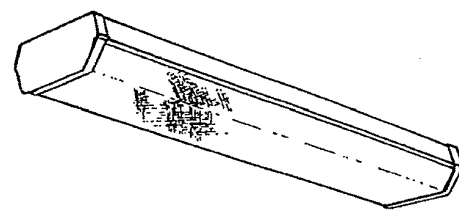
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
FIXTURE MARK 'C'



FIXTURE MARK 'G'



LIGHT FIXTURE SCHEDULE

FIXTURE MARK	STYLE NUMBER AND TYPE	NUMBER AND TYPE OF LAMPS	VOLTAGE	MOUNTING	NOTES
C	INCANDESCENT ONE PIECE W/ APPROVED LENS STABILIZED HIGH IMPACT POLY CARBONATE.	(1) A19 - 100W INCANDESCENT	220V - 1Ø 50HZ	WALL MOUNTED ABOVE EXTERIOR DOORS	
G	WRAP AROUND SURFACE/PENDANT MOUNTED FLUORESCENT FIXTURE WITH PRISMATIC ACRYLIC LENS AND ELECTRONIC BALLAST	(2) 32W 3500K	220V - 1Ø 50HZ	SURFACE MOUNTED	FURNISHED WITH ELECTRONIC BALLAST, VIRGIN ACRYLIC WRAP AROUND LENS.
G2	SAME AS FIXTURE 'G' WITH EMERGENCY BALLAST	(2) 32W 3500K	220V - 1Ø 50HZ	SURFACE MOUNTED	FURNISHED WITH ELECTRONIC BALLAST, VIRGIN ACRYLIC WRAP AROUND LENS. EMERGENCY BALLAST WITH SELF TEST SWITCH.
	WEATHERPROOF BATTERY POWERED EMERGENCY LIGHT WITH 90 MINUTE MINIMUM RUN TIME.	(1) 12W/12V HALOGEN LAMP	220V - 1Ø 50HZ	EXTERIOR WALL MOUNTED AT TOP OF DOOR HEIGHT	



S ARMY CORPS
F ENGINEERS
FGHANISTAN
ENGINEER DISTRICT

[illegible]

U.S. ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT INC A unit of Michael Baker Corporation 100 Alsip Drive Moon Township PA 15108 www.mbakercorp.com	Drawn by: JRG	Checked by: JRG	Design file no. 2/23/40	Drawing code: JRG	File name: 2/23/40	Plot scale: BAKER
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AFGHANISTAN ENGINEER DISTRICT
APO AE 96338

A unit of Michael Baker Corporation
Airside Business Park
100 Airside Drive
Moon Township PA 15108
www.mbakercorp.com

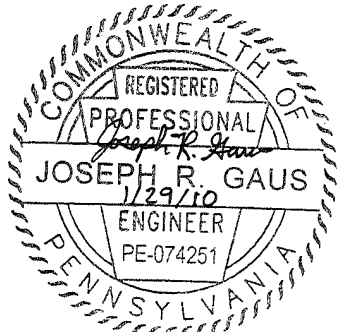
REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

ELECTRICAL LIGHT FIXTURE SCHEDULE

APPROVED:

A/E DESIGNER OF RECORD

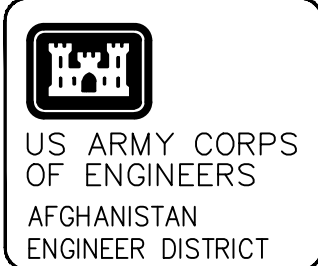
SEAL:



Sheet
reference
number:

E-601

* MAIN BREAKER SHALL BE 3P EARTH GROUND TYPE
** SEE THE VEHICLE REFUELING POINT PACKAGE FOR CONNECTION TO THE VEHICLE REFUELING POINT (VRP) AND THE VEHICLE REFUELING POINT FUEL STORAGE AREA (VRP FS).

[illegible]

U.S. ARMY CORPS OF ENGINEERS AFGHANISTAN ENGINEER DISTRICT	Designed by JRG	Date: 2/23/10	Rev: 0
	Drawn by BUB	Design file no.	
	Reviewed by JRG	Drawing code	
Michael Baker Corp. A unit of Michael Baker Corporation 100 Alstide Drive, Farmingdale, NY 11735 www.mbakercorp.com	Submitted by BAKER	File name Plot date: Plot scale:	

AFGHAN NATIONAL ARMY
REGIONAL MILITARY TRAINING CENTER
STANDARD DESIGN

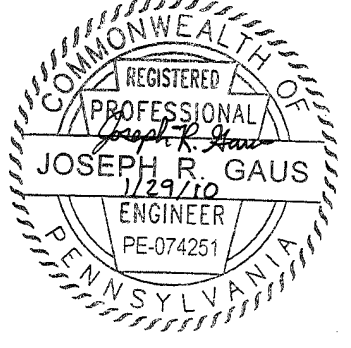
FUEL OPERATORS BUILDING
ELECTRICAL PANEL SCHEDULES

Sheet
reference
number:
E-602

APPROVED: _____

A/E DESIGNER OF RECORD _____

SEAL: _____



The seal is circular with a double-lined border. The outer ring contains the text "COMMONWEALTH OF" at the top and "PENNSYLVANIA" at the bottom, separated by small stars. Inside the ring, the words "REGISTERED" and "PROFESSIONAL" are at the top, "ENGINEER" is at the bottom, and "JOSEPH R. GAUSS" is in the center. Below the name is the license number "PE-074251" and the expiration date "1/29/10".